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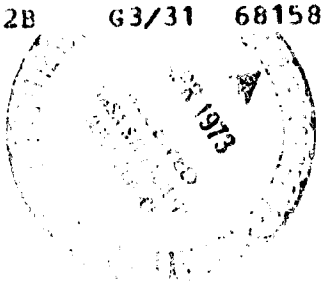
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RESULTS OF INVESTIGATIONS ON A 0.0405 SCALE MODEL ATP VERSION OF THE NR-SSV ORBITER IN THE NORTH AMERICAN AERONAUTICAL LABORATORY LOW SPEED WIND TUNNEL

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SPACE SHUTTLE

AEROTHERMODYNAMIC DATA REPORT

MANNED SPACECRAFT CENTER

HOUSTON, TEXAS

DATA MANagement services
SPACE DIVISION CHRYSLER CORPORATION

March, 1973

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By

Robert Mennell

North American Rockwell Corp.

Prepared under NASA Contract Number NAS9-13247

By

Data Management Services
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for

Aerodynamics Section
Flight Technology Branch
Engineering Analysis Division

Manned Spacecraft Center
National Aeronautics and Space Administration
Houston, Texas

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WIND TUNNEL TEST SPECIFICS

Test Number: NAAL 689

NASA Series No.: OA2

Test Date: 29 Sept.- 3 Oct., 1972

FACILITY COORDINATOR:

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RESULTS OF INVESTIGATIONS ON A 0.0405 SCALE MODEL ATP VERSION OF THE NR-SSV ORBITER IN THE NORTH AMERICAN AERONAUTICAL LABORATORY LOW SPEED WIND TUNNEL

By

Robert Mennell, NR

ABSTRACT

Experimental aerodynamic investigations were conducted in the NAAL Low Speed Wind Tunnel from September 25 through October 3, 1972 on a 0.0405 scale model Space Shuttle Vehicle (SSV) orbiter. The purpose of the test was to investigate the longitudinal and lateral-directional aerodynamic characteristics of the NR proposed ATP Space Shuttle Orbiter. Emphasis was placed on model component, wing-glove, and wing-body fairing effects, as well as elevon, aileron, and rudder control effectiveness.

Angles of attack from -5° to 30° and angles of sideslip from -5° to 10° were tested. Static pressures were recorded on base, fuselage, and wing surfaces. Tufts and talc-kerosene flow visualization techniques were also utilized.

The aerodynamic force balance results are presented in plotted and tabular form.

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SCHEDULE OF COEFFICIENTS PLOTTED:

I	-	CL, L/DF, CAF, CN, XCP/L, & CLM vs Alpha CL vs CDF & CL vs CLM
II	-	CY, CYN & CBL vs Beta
III	-	Alpha vs CY, CYN & CBL

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NOMENCLATURE
General

SYMBOL	SADSAC SYMBOL	DEFINITION
a		speed of sound; m/sec, ft/sec
C_p	CP	pressure coefficient; $(p_l - p_\infty)/q$
M	MACH	Mach number; V/a
p		pressure; N/m^2, psf
q	Q(NSM) Q(PSF)	dynamic pressure; $1/2\rho V^2$, N/m^2, psf
RN/L	RN/L	unit Reynolds number; per m, per ft
V		velocity; m/sec, ft/sec
α	ALPHA	angle of attack, degrees
β	BETA	angle of sideslip, degrees
ψ	PSI	angle of yaw, degrees
ϕ	PHI	angle of roll, degrees
ρ		mass density; kg/m^3, $slugs/ft^3$

Reference & C.G. Definitions

A_b		base area; m^2, ft^2
b	BREF	wing span or reference span; m, ft
c.g.		center of gravity
ℓ_{REF} or $\bar{c}$	LREF	reference length or wing mean aerodynamic chord; m, ft
S	SREF	wing area or reference area; m^2, ft^2
	MRP	moment reference point
	XMRP	moment reference point on X axis
	YMRP	moment reference point on Y axis
	ZMRP	moment reference point on Z axis

SUBSCRIPTS

b	base
l	local
s	static conditions
t	total conditions
∞	free stream

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NOMENCLATURE (Continued)

Body-Axis System

SYMBOL	CADCAC SYMBOL	DEFINITION
C_N	CN	normal-force coefficient; $\frac{\text{normal force}}{qS}$
C_A	CA	axial-force coefficient; $\frac{\text{axial force}}{qS}$
C_Y	CY	side-force coefficient; $\frac{\text{side force}}{qS}$
C_{A_b}	CAB	base-force coefficient; $\frac{\text{base force}}{qS}$ $-A_b(p_b - p_\infty)/qS$
C_{A_f}	CAF	forebody axial force coefficient, $C_A - C_{A_b}$
C_m	CLM	pitching-moment coefficient; $\frac{\text{pitching moment}}{qS\ell_{REF}}$
C_n	CYN	yawing-moment coefficient; $\frac{\text{yawing moment}}{qSb}$
C_ℓ	CBL	rolling-moment coefficient; $\frac{\text{rolling moment}}{qSb}$
		Stability-Axis System
C_L	CL	lift coefficient; $\frac{\text{lift}}{qS}$
C_D	CD	drag coefficient; $\frac{\text{drag}}{qS}$
C_{D_b}	CDB	base-drag coefficient; $\frac{\text{base drag}}{qS}$
C_{D_f}	CDF	forebody drag coefficient; $C_D - C_{D_b}$
C_Y	CY	side-force coefficient; $\frac{\text{side force}}{qS}$
C_m	CLM	pitching-moment coefficient; $\frac{\text{pitching moment}}{qS\ell_{REF}}$
C_n	CLN	yawing-moment coefficient; $\frac{\text{yawing moment}}{qSb}$
C_ℓ	CSL	rolling-moment coefficient; $\frac{\text{rolling moment}}{qSb}$
L/D	L/D	lift-to-drag ratio; C_L/C_D
L/D_f	L/DF	lift to forebody drag ratio; C_L/C_{D_f}

NOMENCLATURE (Continued)

ADDITIONS TO STANDARD LIST

SYMBOL	PLOT SYMBOL	DEFINITION
δ_{BF}	B2FLAP	body flap deflection angle, degrees; positive when deflected down.
δ_e	ELEVON	elevon deflection angle, degrees; elevon deflection for pitch control, positive deflection trailing edge down.
δ_{LE}	LE.MOD	leading edge surface deflection angle, positive deflection only, surface downward.
δ_{N_1}	CANARD	canard, surface deflection angle, positive deflection, trailing edge down; degrees.
δ_R	RUDDER	rudder deflection angle, degrees; rudder deflection for directional control, positive deflection trailing edge left.
δ_{RF}	RUDFLR	rudder flare included angle, degrees; split rudder flare deflection for pitch and/or speed control.
Q_2	STRAKE	fuselage strake - see Table III.
XCP/ℓ	XCP/L	center of pressure location in percent of body length.

CONFIGURATIONS INVESTIGATED

The model for this test was an 0.0405 scale representation of the North American Rockwell ATP Space Shuttle Orbiter. The model was constructed around an aluminum balance block with a 3.25 inch diameter balance cavity. All model components, i.e., body mold lines, wings, etc., were constructed either of aluminum and/or wood and attached directly to the model balance block.

The available model configuration variables were: vertical tail with main engine cooling inlet; vertical tail rudder and/or rudder flare capability; full span split elevons with unswept hingeline; removable canopy, manipulator arm housing and orbital maneuvering system; and various wing-glove combinations.

The balance support system utilized for this test period was the 2.5 inch MK IX internal balance and NAAL sting support system.

The various model components tested are listed below. Table I delineates the configurations these components were tested in while Table II lists the pertinent dimensions of each component.

Component Symbol	Description
B_2	ATP baseline delta wing fuselage
C_2	ATP baseline canopy configuration
D_2	Manipulator arm housing - ATP MAH configuration
D_3	D_2 manipulator arm housing faired into fuselage lines for smooth contour
E_2	Full span constant chord elevon
F_1	ATP baseline body flap
K_2	Cooling inlet (configured to vertical tail V_3)
M_1	ATP orbital maneuvering system
N_1	Fuselage canard
Q_2	Fuselage strakes (fabricated in tunnel)
R_3	Rudder used with vertical tail V_3

V_3	Centerline vertical tail used on body B_2
W_2	ATP baseline delta wing
W_{12}	W_2 with modified wing-cuff area
W_{13}	W_2 with modified wing-cuff area
W_{35}	W_2 with leading edge deflection

TEST FACILITY DESCRIPTION

The North American Aeronautical Laboratory (NAAL) 7.75 x 11-Foot Wind Tunnel is a continuous flow, closed circuit, single return type tunnel capable of speeds up to 200 miles per hour. The test section is vented to atmospheric pressure and is 7.75 x 11 feet wide by 12 feet in length. Power is supplied by a 1250 horsepower nacelle mounted synchronous motor driving a 19 foot, seven blade, laminated birch propeller. The airspeed is controlled by varying the degree of coupling between the motor and propeller by means of a magnetic clutch. A damping screen and honeycomb section in the settling chamber upstream from the contraction cone (ratio 7.53 to 1) minimize turbulence in the test section. The NAAL Wind Tunnel has been in operation since June 1943 and calibrations are available over a wide range of test conditions.

Tests may be conducted using a variety of mounting systems, e.g., a single strut, double strut, sting strut, reflection plane, cable suspension, and two dimensional wall. Aerodynamic data may be measured by a planar type external balance system or sting mounted internal balances. An Astrodata Automatic Data Acquisition System is used to collect, multiplex, digitize, and record 50 channels of force and/or pressure data on magnetic tape. These data are then rapidly reduced and plotted using automatic data processing equipment and an automatic digital plotter.

DATA REDUCTION

The aerodynamic force and moment data presented were measured by the Task Corporation 2.5 inch MK IX strain gage balance. The data have been corrected for model base and balance chamber pressure effects, model blockage influence on tunnel dynamic pressure, wall interference effects, sting and balance deflections, and model weight tare.

The pressure corrections to the base area were accomplished in the following manner:

$$CA_F = CA - CA_{BC} - CA_B - CA_T$$

where

$$CA_{BC} = -\left(\frac{P_{BC} - P_\infty}{q}\right)\left(\frac{A_{BC}}{SREF}\right)$$

$$CA_B = -\left(\frac{P_B - P_\infty}{q}\right)\left(\frac{A_B}{SREF}\right)$$

$$P_B = 1/5\,(P_{B1} + P_{B2} + P_{B3} + P_{B4} + P_{B5})$$

P_{B_i} = base pressures

$i = 1 \rightarrow 5$

CA_T = Model axial force weight tare

The following reference dimensions were used for reducing the data to coefficient form:

A_B	= Area of base (without OMS) ft^2	0.40002
A_B	= Area of base (with OMS) ft^2	0.51939
A_{BC}	= Area of balance cavity, ft^2	0.13635
SREF	= Area of wing, ft^2	5.2816
XMRP	= Center of gravity, fus. sta.	43.0596
ZMRP	= Center of gravity, waterplane	16.2000
L	= Length of body, in.	53.7840
$\bar{c}$ (LREF)	= Wing MAC, in.	21.2828
b (BREF)	= Wing span, in.	40.8119

For several runs during the test, pressure data were obtained using "pressure bugs" located on the wing. For these runs no force data were recorded.

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TABLE I

TEST : NAAL 689 DATE Sep.-Oct., '72

TEST CONDITIONS

MACH NUMBER	REYNOLDS NUMBER (per unit length)	DYNAMIC PRESSURE (pounds/sq. foot)	STAGNATION TEMPERATURE (degrees Fahrenheit)
0.165	1.15 X 10^6/FT.	40 PSF	90-120 °F
0.260	1.85 X 10^6/FT.	100 PSF	90-120 °F.

BALANCE UTILIZED: TASK 2.5" MK IX

	CAPACITY:	ACCURACY:	COEFFICIENT TOLERANCE:
NF	1500 LBS.	7.5 LBS	
SF	750 LBS.	3.75 LBS	
AF	200 LBS.	1.00 LBS	
PM			
RM			
YM	4000 IN-LBS	20.00 IN-LBS	

COMMENTS: ONLY ACCURACY QUOTED IS 1/2 OF ONE PERCENT OF THE BALANCE RATED LOAD.

TABLE II

TEST: NAAL 689 — DATA SET/RUN NUMBER COLLATION SUMMARY — DATE POST TEST

DATA SET IDENTIFIER	CONFIGURATION	SCHD. α	SCHD. β	CONTROL DEFLECTION	NO. OF RUNS	MACH NUMBERS (OR ALTERNATE INDEPENDENT VARIABLE) .26	TEST RUN NUMBERS
RDF 001	B2	A	O		1	1	
002		O	F			2	
003		5				3	
004		10				4	
005		15				5	
006		18				6	
007		20				7	
008	B2C2D2	A	O			8	
009		O	F			9	
010		5				10	
011		10				11	
012		15				12	
013		18				13	
014		20				14	
015	B2C2D3	A	O			15	
016		O	F			16	
017		5				17	
018		10				18	

1 7 13 19 25 31 37 43 49 55 61 67 75 75

CL, , , CD, F, , , IC, L, M, , , IC, N, , , , IC, A, F, , , IC, L, N, , , IC, S, L, , , IC, Y, , , , IX, C, P, /L, IL/DF, , IM, A, C, H, , , IA, L, P, H, A

COEFFICENTS — IDVAR (1) — IDVAR (2) — NDV

α OR β SCHEDULES

α(A) = -5, -3, -1, 0, 1, 3, 5, 6, 8, 10, 12, 14, 16, 17, 19, 21, 23, 25, 28

α(B) = 3, 7, 10, 13, 17 β(F) = -5, -3, -1, 0, 1, 3, 5, 7, 9, 11

TEST : NAAL 689 — DATA SET/RUN NUMBER COLLATION SUMMARY — DATE

DATA SET IDENTIFIER	CONFIGURATION	SCHD. α	SCHD. β	CONTROL DEFLECTION δe	CONTROL DEFLECTION δeF	NO. OF RUNS	MACH NUMBERS (OR ALTERNATE INDEPENDENT VARIABLE) .165	.26	TEST RUN NUMBERS
RDF019	$B_2C_2D_3$	15	F			1		19	
020		18						20	
021		20						21	
022	$B_2C_2D_2M_1$	A	0					22	
023		0	F					23	
024		5						24	
025		10						25	
026		15						26	
027		18						27	
028		20						28	
029	$B_2C_2D_2M_1F_1$	A	0		0			29	
030		0	F					30	
031		5						31	
032		10						32	
033		15						33	
034		18						34	
035		20						35	
037	+ PRESSURE BUGS	A	0				37		

1 7 13 19 25 31 37 43 49 55 61 67 75 76

COEFFICENTS — IDVAR (1) — IDVAR (2) — NDV

α OR β SCHEDULES

TABLE II (Continued)

TEST : NAAL 689 — DATA SET/RUN NUMBER COLLATION SUMMARY — DATE :

DATA SET IDENTIFIER	CONFIGURATION	SCHD. α	SCHD. β	CONTROL DEFLECTION δe	CONTROL DEFLECTION δR	CONTROL DEFLECTION δeF	CONTROL DEFLECTION X/C	NO. OF RUNS	MACH NUMBERS (OR ALTERNATE INDEPENDENT VARIABLE) .165	.26	TEST RUN NUMBERS
RDF 038	B2C2D2M1F1W2	A	0	0		0		1		38	
039		0	F							39	
040		5								40	
041		10								41	
042		15								42	
043		18								43	
044		20								44	
063	B2C2D2M1F1W2V3K2	A	0		0				63		
064		A	0							64	
065		0	F							65	
066		5								66	
067		10								67	
068		15								68	
069		18								69	
070		20								70	
071		A	5							71	
072			0			-12				72	
056	B2C2D2M1F1W2V3K2 + PRESSURE BUGS@X/C =					0	.05		56		

1 7 13 19 25 31 37 43 49 55 61 67 75 76

COEFFICENTS — IDVAR (1) — IDVAR (2) — NDV

α OR β SCHEDULES

TEST : NAAL 689

DATA SET/RUN NUMBER COLLATION SUMMARY

DATE :

DATA SET IDENTIFIER	CONFIGURATION	SCHD. α	SCHD. β	CONTROL DEFLECTION δ_e	CONTROL DEFLECTION δ_R	CONTROL DEFLECTION δ_{BF}	X/c	NO. OF RUNS	MACH NUMBERS (OR ALTERNATE INDEPENDENT VARIABLE) .165	.26	TEST RUN NUMBERS
RDF057	$B_2C_2D_2M_1F_1W_2V_3K_2$	A	0	0	0	0	.15	1	57		
058	+ PRESSURE BUGS @ X/c =						.30		58		
059							.45		59		
060							.60		60		
061							.70		61		
062							.85		62		
073	$B_2C_2D_2M_1W_2V_3K_2$	A	0							73	
074		0	F							74	
075		5								75	
076		10								76	
077		15								77	
078		18								78	
079		20								79	
080	$B_2C_2D_2F_1W_2V_3K_2$	A	0			0				80	
081		0	F							81	
082		5								82	
083		10								83	
084		15								84	

1 7 13 19 25 31 37 43 49 55 61 67 75 76

COEFFICENTS IDVAR (1) IDVAR (2) NDV

α OR β SCHEDULES

TABLE II (Continued)

TEST: NAAL 689 — DATA SET/RUN NUMBER COLLATION SUMMARY — DATE:

DATA SET IDENTIFIER	CONFIGURATION	SCHD. α	SCHD. β	CONTROL DEFLECTION δe	δR	δBF	NO. OF RUNS	MACH NUMBERS (OR ALTERNATE INDEPENDENT VARIABLE)	TEST RUN NUMBERS
RDF 085	$B_2C_2D_2F_1W_2V_3K_2$	18	F	0	0	0	1	.26	
086	↓	20	↓	↓				85	
087	$B_2C_2D_2M_1F_1W_2F_2V_3K_2$	A	0	-5				86	
088	↓	0	F	↓				87	
089	$B_2C_2M_1F_1W_2V_3K_2$	A	0	0				89	
090		0	F					90	
091		5						91	
092		10						92	
093		15						93	
094		18						94	
095	↓	20	↓					95	
096	$B_2M_1F_1W_2V_3K_2$	A	0					96	
097		0	F					97	
098		5						98	
099		10						99	
100		15						00	
101		18						101	
102	↓	20	↓	↓	↓	↓	↓	102	

1 7 13 19 25 31 37 43 49 55 61 67 75 76

COEFFICENTS — IDVAR (1) — IDVAR (2) — NDV

α OR β SCHEDULES

TEST : NAAL 689

DATA SET/RUN NUMBER COLLATION SUMMARY

DATE

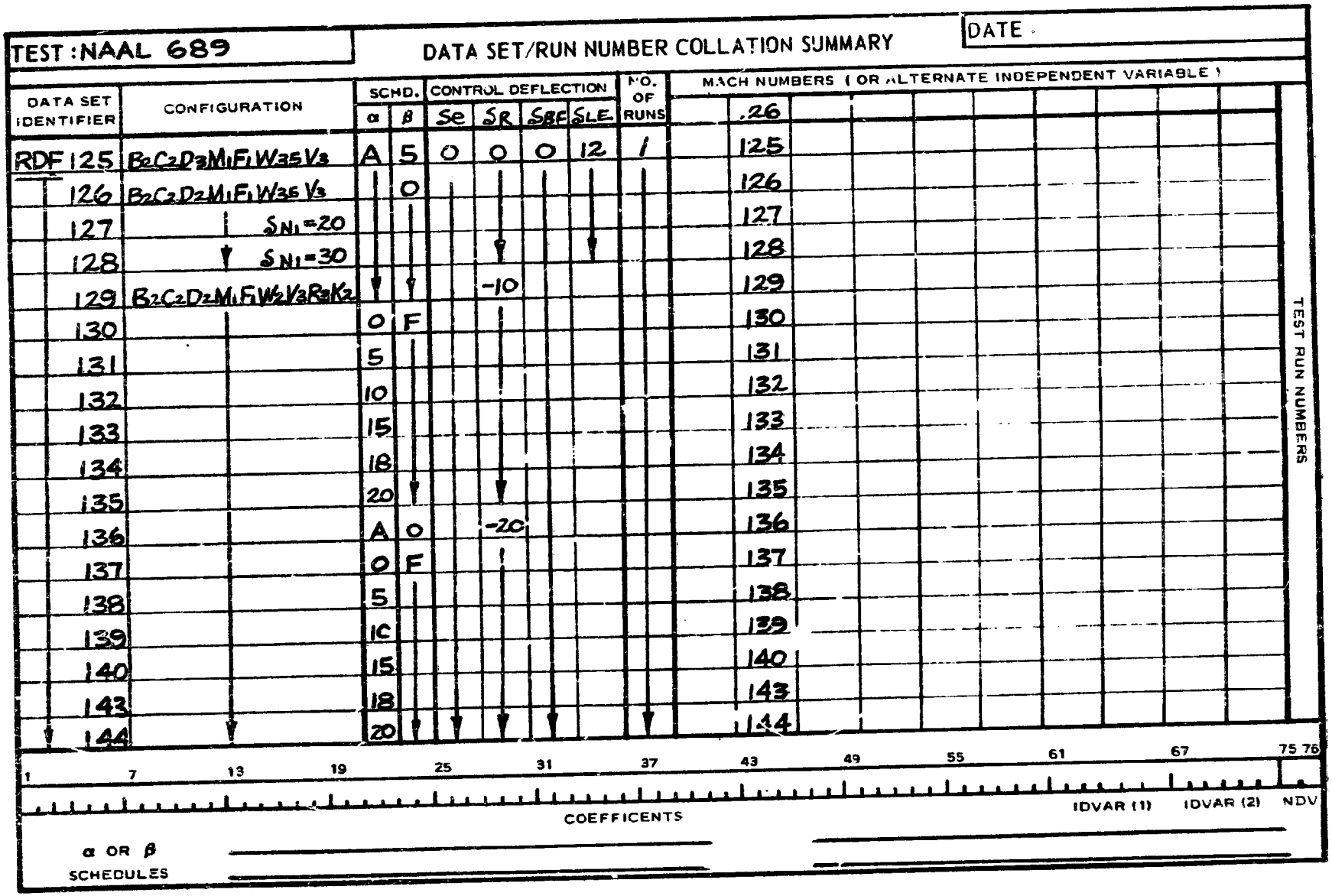
DATA SET IDENTIFIER	CONFIGURATION	SCHD. α	SCHD. β	CONTROL DEFLECTION δe	CONTROL DEFLECTION δBF	CONTROL DEFLECTION δLE	CONTROL DEFLECTION X/C	NO. OF RUNS	MACH NUMBERS (OR ALTERNATE INDEPENDENT VARIABLE) .165	.26	TEST RUN NUMBERS
RDF 103	$B_2C_2D_2M_1F_1W_{35}V_3K_2$	A	0	0	0	18		1		103	
104	↓		5							104	
105	$B_2C_2D_2M_1F_1W_{35}V_3K_2$		0				.05		105		
106	+ PRESSURE BUGS @ X/C=						.15		106		
107							.30		107		
108							.45		108		
109							.60		109		
110							.70		110		
111	↓			↓		↓	.85		111		
113	$B_2C_2D_2M_1F_1W_{35}E_2V_3K_2$			-5						113	
114	↓			↓		12				114	
117	$B_2C_2D_2M_1F_1W_{35}V_3K_2$		↓	0						117	
118	↓		5	↓		↓				118	
120	+ PRESSURE BUGS @ X/C=.05		0						120		
121	" @ X/C=.15		↓						121		
122	$B_2C_2D_2M_1F_1W_{25}V_3$									122	
123	↓		5							123	
124	$B_2C_2D_3M_1F_1W_{35}V_3$	↓	0	↓	↓	↓		↓		124	

1 7 13 19 25 31 37 43 49 55 61 67 75 76

COEFFICENTS IDVAR (1) IDVAR (2) NDV

α OR β SCHEDULES

TABLE II (Continued)



TEST : NAAL 689

DATA SET/RUN NUMBER COLLATION SUMMARY

DATE :

DATA SET IDENTIFIER	CONFIGURATION	SCHD. α	SCHD. β	CONTROL DEFLECTION δe	CONTROL DEFLECTION δR	CONTROL DEFLECTION δRF	CONTROL DEFLECTION δBF	NO. OF RUNS	MACH NUMBERS (OR ALTERNATE INDEPENDENT VARIABLE) .26	TEST RUN NUMBERS
RDF 182	$B_2C_2D_2M_1F_1W_2V_3K_2$	A	0	0	0	10	0	1	182	
183			5						183	
147	$B_2C_2D_2M_1F_1V_3K_2$		0						147	
148		0	F						148	
149		5							149	
150		10							150	
151		15							151	
152		18							152	
153		20							153	
154	$B_2C_2D_2M_1F_1V_3R_3K_2$	A	0		-10				154	
155		0	F						155	
156		5							156	
157		10							157	
158		15							158	
159		18							159	
160		20	F						160	
161		A	0		-20				161	
162		0	F						162	

1 7 13 19 25 31 37 43 49 55 61 67 75 76

COEFFICENTS IDVAR (1) IDVAR (2) NDV

α OR β SCHEDULES

TABLE II (Concluded)

TEST: NAAL 689 — DATA SET/RUN NUMBER COLLATION SUMMARY — DATE

DATA SET IDENTIFIER	CONFIGURATION	SCHD. α	SCHD. β	CONTROL DEFLECTION δ_R	CONTROL DEFLECTION δ_{BF}	CONTROL DEFLECTION δ_E	CONTROL DEFLECTION Q_2	NO. OF RUNS	MACH NUMBERS (OR ALTERNATE INDEPENDENT VARIABLE) .165	.26	TEST RUN NUMBERS
RDF 163	$B_2C_2D_2M_1F_1V_3R_3K_2$	5	F	-20	0			1		163	
164		10								164	
165		15								165	
166		18								166	
167		20								167	
168	$B_2Q_2C_2D_2M_1F_1W_2V_3K_2$	A	0	0		0	5 in.			168	
169			5							169	
170			0				6 in.			170	
171			5							171	
172			0				7 in.			172	
173			5							173	
178	$B_2C_2D_2M_1F_1W_{12}V_3K_2$		0							178	
179			5							179	
180	$B_2C_2D_2M_1F_1W_{13}V_3K_2$		0						180		
181			5						181		

1 7 13 19 25 31 37 43 49 55 61 67 75 75

COEFFICENTS — IDVAR (1) — IDVAR (2) — NDV

α OR β SCHEDULES

REPRODUCIBILITY OF THE ORIGINAL PAGE IS POOR

TABLE III. MODEL COMPONENT DIMENSIONAL DATA

MODEL COMPONENT: BODY - B2 - ATP BASELINE

GENERAL DESCRIPTION: DELTA WING FUSELAGE PER NR LINES VL70-000003A

MODEL SCALE = .0405

DRAWING NUMBER: VL70-000003A

DIMENSIONS:	FULL-SCALE	MODEL SCALE
Length, IN.	1320.33	53.797
Max. Width	237.96	9.637
Max. Depth	238.00	9.639
Fineness Ratio	5.527	5.521
Area~ft²		
Max. Cross-Sectional	315.07	.517
Planform		
Wetted		
Base		

TABLE III. (CONTINUED)

MODEL COMPONENT: CANARD N1

GENERAL DESCRIPTION: FUSELAGE (CANARD CONSTRUCTED IN-TUNNEL (DATA FOR ONE OF TWO SIDES)

SCALE MODEL = .0405

DRAWING NUMBER: _____

DIMENSIONS:	FULL-SCALE	MODEL SCALE
Length ~ IN.	224.813	9.105
Max. Width ~ IN.	68.000	2.754
Max. Depth	_____	_____
Fineness Ratio	_____	_____
Area ~ ft^2		
Max. Cross-Sectional	_____	_____
Planform	86.500	0.1419
Wetted	_____	_____
Base	_____	_____

TABLE III. (CONTINUED)

MODEL COMPONENT: BODY - STRAKES Q:

GENERAL DESCRIPTION: FUSELAGE STRAKES FABRICATED IN-TUNNEL WITHOUT DWGS. 1/16" SHEET ALUM.

SCALE, MODEL = .0405

DRAWING NUMBER: _____

DIMENSIONS:	FULL-SCALE	MODEL SCALE
Length – in.	469.14	19.00
Max. Width	28.887	1.170
Max. Depth	1.543	0.0625
Fineness Ratio	_____	_____
Area		
Max. Cross-Sectional	_____	_____
Planform	_____	_____
Wetted	_____	_____
Base	_____	_____

LOCATED LONGITUDINALLY FROM F.S. 469.14 TO LEADING EDGE OF WING @ W.P.S 391.887
422.469
452.346

TABLE III. (CONTINUED)

MODEL COMPONENT: [redacted] - CANOPY C2 - ATP BASELINE

GENERAL DESCRIPTION: ATP CANOPY CONFIGURATION

MODEL SCALE = .0405

DRAWING NUMBER: VL70-000003A

DIMENSIONS:	FULL-SCALE	MODEL SCALE
Length, in	344.00	13.932
Max. Width, in	477.33	19.332
Max. Depth, in	328.67	13.311
Fineness Ratio	———	———
Area		
Max. Cross-Sectional	———	———
Planform	———	———
Wetted	———	———
Base	———	———

TABLE III. (CONTINUED)

MODEL COMPONENT: BODY - MANIPULATOR ARM HOUSING - D2

GENERAL DESCRIPTION: ATP MAH CONFIGURATION

SCALE MODEL = .0405

DRAWING NUMBER: VL70-000003A

DIMENSIONS:	FULL-SCALE	MODEL SCALE
Length ~in	967.00	39.164
Max. Width ~in	53.317	2.159
Max. Depth ~in	20.00	0.810
Fineness Ratio	———	———
Area		
Max. Cross-Sectional	———	———
Planform	———	———
Wetted	———	———
Base	———	———

TABLE III. (CONTINUED)

MODEL COMPONENT: [redacted] - MANIPULATOR ARM HOUSING - D3

GENERAL DESCRIPTION: IN-TUNNEL MODIFICATION TO D2.

SCALE MODEL = .0405

DRAWING NUMBER: _____

DIMENSIONS:	FULL-SCALE	MODEL SCALE
Length ~ IN.	967.00	39.164
Max. Width ~ IN.	120.00	4.860
Max. Depth ~ IN.	20.00	0.810
Fineness Ratio	_____	_____
Area		
Max. Cross-Sectional	_____	_____
Planform	_____	_____
Wetted	_____	_____
Base	_____	_____

TABLE III. (CONTINUED)

MODEL COMPONENT: [redacted] - ORBITAL MANEUVERING SYSTEM - M1

GENERAL DESCRIPTION: ATP OMS CONFIGURATION (DATA FOR 1 OF 2 SIDES)

SCALE MODEL = .0405

DRAWING NUMBER: VL70-000003A

DIMENSIONS:	FULL-SCALE	MODEL SCALE
Length~in	276.67	11.205
Max. Width~in	100.67	4.077
Max. Depth~in	106.00	4.290
Fineness Ratio		
Area		
Max. Cross-Sectional		
Planform		
Wetted		
Base		

TABLE III. (CONTINUED)

MODEL COMPONENT: BODY - FLAP F1 ATP BASELINE

GENERAL DESCRIPTION: FLAP LOCATED ON LOWER AFT PORTION OF FUSELAGE TRAILING EDGE

SCALE MODEL = .0405

DRAWING NUMBER: VL70-000003A

DIMENSIONS:	FULL-SCALE	MODEL SCALE
Length ~IN.	236.543	9.580
[redacted] FLAP L.E. ~ FUS. STA. ~IN.	1528.300	61.896
[redacted] FLAP T.E. ~ FUS STA. ~IN.	1650.560	66.848
[redacted] SPAN ~IN.	236.543	9.580
Area ~ ft^2		
Max. Cross-Sectional	—	—
Planform	199.752	0.3276
Wetted	—	—
Base	—	—

TABLE III. (CONTINUED)

MODEL COMPONENT: WING W2 - ATP BASELINE

GENERAL DESCRIPTION: DELTA WING WITH -5° TWIST AND ROUNDED WING TIPS. WING - BODY BLENDING. EQUIV. SPAN IS 78.93% OF THEORETICAL DELTA. SCALE MODEL = .0405

DRAWING NUMBER: VL70-000003A

DIMENSIONS:	FULL-SCALE	MODEL SCALE
TOTAL DATA		
Area (IN W.R.P.) ~ ft²		
Planform	3221.92	5.284
Wetted		
Span (equivalent) ~ in	997.46	40.397
Aspect Ratio	2.144	2.144
Rate of Taper	1.191	1.191
Taper Ratio	0.219	0.219
Dihedral Angle, degrees	3.500	3.500
Incidence Angle, degrees	3.000	3.000
Aerodynamic Twist, degrees (ABOUT T.E.)	-5.000	-5.000
[redacted] INCIDENCE TIP, DEG.	-2.000	-2.000
[redacted] INCIDENCE ROOT, DEG.	3.000	3.000
Sweep Back Angles, degrees		
Leading Edge	49.910	49.910
Trailing Edge	-0.183	-0.183
0.25 Element Line	41.675	41.675
Chords: in.		
Root (Wing Sta. 0.0)	761.86	30.855
Tip, (equivalent)	166.168	6.751
MAC	527.86	21.378
Fus. Sta. of .25 MAC	1132.18	45.886
W.P. of .25 MAC	304.55	12.334
B.L. of .25 MAC	196.09	7.942
Airfoil Section		
Root		
Tip		
EXPOSED DATA		
Area (IN W.R.P.) ~ ft²	2237.69	3.670
Span, (equivalent) ~ in.	795.86	32.232
Aspect Ratio	1.9166	1.9166
Taper Ratio	0.260	0.260
Chords		
Root (Equiv.)	641.57	25.984
Tip (Equiv.)	166.168	6.751
MAC	450.63	18.251
Fus. Sta. of .25 MAC	260.80	10.562
W.P. of .25 MAC	305.47	12.371
B.L. of .25 MAC	260.80	10.562
LEADING EDGE CUFF, PLANFORM ~ ft²	201.27	0.3301
L.E. INTERSECTS FUS. ML @ STA	513.33	20.789
" " WING @ STA.	1146.07	46.440

TABLE III. (CONTINUED)

MODEL COMPONENT: Wing W12

GENERAL DESCRIPTION: Same Planform As W2 Except For Different Wing - Cuff Area (In-Tunnel Modification)

Scale Model = .0405

DRAWING NUMBER: VL70-006002

DIMENSIONS:	FULL-SCALE	MODEL SCALE
TOTAL DATA		
Area		
Planform		
Wetted		
Span (equivalent)		
Aspect Ratio		
Rate of Taper		
Taper Ratio		
Diehedral Angle, degrees		
Incidence Angle, degrees		
Aerodynamic Twist, degrees		
Toe-In Angle		
Cant Angle		
Sweep Back Angles, degrees		
Leading Edge		
Trailing Edge		
0.25 Element Line		
Chords:		
Root (Wing Sta. 0.0)		
Tip, (equivalent)		
MAC		
Fus. Sta. of .25 MAC		
W.P. of .25 MAC		
B.L. of .25 MAC		
Airfoil Section		
Root		
Tip		
EXPOSED DATA		
Area		
Span, (equivalent)		
Aspect Ratio		
Taper Ratio		
Chords		
Root		
Tip		
MAC		
Fus. Sta. of .25 MAC		
W.P. of .25 MAC		
B.L. of .25 MAC		
Leading Edge Cuff Planform Area - ft²	127.82	0.210

TABLE III. (CONTINUED)

MODEL COMPONENT: WING W13

GENERAL DESCRIPTION: SAME PLANFORM AS W2 EXCEPT FOR DIFFERENT WING-CUFF AREA (IN TUNNEL MODIFICATION)

SCALE MODEL = .0405

DRAWING NUMBER: VL70-006023

DIMENSIONS:	FULL-SCALE	MODEL SCALE
TOTAL DATA		
Area		
Planform		
Wetted		
Span (equivalent)		
Aspect Ratio		
Rate of Taper		
Taper Ratio		
Diehedral Angle, degrees		
Incidence Angle, degrees		
Aerodynamic Twist, degrees		
Toe-In Angle		
Cant Angle		
Sweep Back Angles, degrees		
Leading Edge		
Trailing Edge		
0.25 Element Line		
Chords:		
Root (Wing Sta. 0.0)		
Tip, (equivalent)		
MAC		
Fus. Sta. of .25 MAC		
W.P. of .25 MAC		
B.L. of .25 MAC		
Airfoil Section		
Root		
Tip		
EXPOSED DATA		
Area		
Span, (equivalent)		
Aspect Ratio		
Taper Ratio		
Chords		
Root		
Tip		
MAC		
Fus. Sta. of .25 MAC		
W.P. of .25 MAC		
B.L. of .25 MAC		
LEADING EDGE CUFF PLANFORM AREA - ft^2	333.44	0.5551

TABLE III. (CONTINUED)

MODEL COMPONENT: WING W35

GENERAL DESCRIPTION: SAME AS WING W2 EXCEPT WING LEADING EDGE DEFLECTS ⊥ TO 10% ELEMENT LINE BETWEEN $\eta = .5 \rightarrow \eta = .9$

DRAWING NUMBER: _____

DIMENSIONS:	FULL-SCALE	MODEL SCALE
TOTAL DATA		
Area		
Planform		
Wetted		
Span (equivalent)		
Aspect Ratio		
Rate of Taper		
Taper Ratio		
Dihedral Angle, degrees		
Incidence Angle, degrees		
Aerodynamic Twist, degrees		
Toe-In Angle		
Cant Angle		
Sweep Back Angles, degrees		
Leading Edge		
Trailing Edge		
0.25 Element Line		
Chords:		
Root (Wing Sta. 0.0)		
Tip, (equivalent)		
MAC		
Fus. Sta. of .25 MAC		
W.P. of .25 MAC		
B.L. of .25 MAC		
Airfoil Section		
Root		
Tip		
EXPOSED DATA		
Area		
Span, (equivalent)		
Aspect Ratio		
Taper Ratio		
Chords		
Root		
Tip		
MAC		
Fus. Sta. of .25 MAC		
W.P. of .25 MAC		
B.L. of .25 MAC		

TABLE III. (CONTINUED)

MODEL COMPONENT: ELEVON E2

GENERAL DESCRIPTION: FULL SPAN CONSTANT CHORD ELEVON UTILIZED WITH WING W2, W11, W12, & W13

SCALE MODEL = .0405

DRAWING NUMBER: VL70-000003A

DIMENSIONS:	FULL-SCALE	MODEL SCALE
Area~ft^2	347.87	0.5706
Span (equivalent)~in	384.00	15.552
Inb'd equivalent chord~in	134.38	5.442
Outb'd equivalent chord~in	134.38	5.442
Ratio movable surface chord/ total surface chord		
At Inb'd equiv. chord	0.209	0.209
At Outb'd equiv. chord	0.805	0.805
Sweep Back Angles, degrees		
Leading Edge	-0.183	-0.183
Tailing Edge	-0.183	-0.183
Hingeline	-0.183	-0.183
Area Moment (Normal to hinge line)~ft^3 PRODUCT OF AREA & MEAN CHORD.	3880.58	0.258

TABLE III. (CONTINUED)

MODEL COMPONENT: VERTICAL TAIL V3 - ATP BASELINE

GENERAL DESCRIPTION: CENTERLINE VERTICAL TAIL USED ON BODY B2. DOUBLE WEDGE AIRFOIL WITH RUDDER AND/OR SPOILER BRAKE CAPABILITY

SCALE MODEL .0405

DRAWING NUMBER: _____

DIMENSIONS:	FULL-SCALE	MODEL SCALE
TOTAL DATA		
Area - ft^2		
Planform	404.95	0.664
[redacted] BLANKETED (INC. ABOVE)	32.05	0.052
Span (equivalent) ~IN.	289.88	11.740
Aspect Ratio	1.565	1.565
Rate of Taper	0.504	0.504
Taper Ratio	0.434	0.434
Dihedral Angle, degrees	—	—
Incidence Angle, degrees	—	—
Aerodynamic Twist, degrees	—	—
Toe-In Angle ~DEG.	0.0	0.0
Cant Angle ~DEG	0.0	0.0
Sweep Back Angles, degrees		
Leading Edge	45.000	45.000
Trailing Edge	26.361	26.361
0.25 Element Line	41.150	41.150
Chords: ~IN.		
Root ([redacted]) W.P. 520.000	258.350	10.463
Tip, (equivalent) W.P. 809.885	112.123	4.541
MAC W.P. 645.875	194.855	7.892
Fus. Sta. of .25 MAC	1492.279	60.437
W.P. of .25 MAC	645.875	26.157
B.L. of .25 MAC	0.0	0.0
Airfoil Section 5° HALF ANGLE DOUBLE WEDGE WITH ROUNDED		
Root L.E. = 1.6% LOCAL CHORD	—	—
Tip	—	—
EXPOSED DATA		
Area	—	—
Span, (equivalent)	—	—
Aspect Ratio	—	—
Taper Ratio	—	—
Chords		
Root	—	—
Tip	—	—
MAC	—	—
Fus. Sta. of .25 MAC	—	—
W.P. of .25 MAC	—	—
B.L. of .25 MAC	—	—

TABLE III. (CONTINUED)

MODEL COMPONENT: RUDDER R3

GENERAL DESCRIPTION: RUDDER USED WITH VERTICAL TAIL K3.

SCALE MODEL = .0405

DRAWING NUMBER: _____

DIMENSIONS:	FULL-SCALE	MODEL SCALE
Area ~ AFT OF H, ft²	115.63	0.190
Span (equivalent) ~ IN.	223.34	9.045
Inb'd equivalent chord ~ IN.	97.09	3.932
Outb'd equivalent chord ~ IN.	52.02	2.107
Ratio movable surface chord/ total surface chord		
At Inb'd equiv. chord	0.400	0.400
At Outb'd equiv. chord	0.400	0.400
Sweep Back Angles, degrees		
Leading Edge	34.889	34.889
Tailing Edge	26.361	26.361
Hingeline	34.889	34.889
Area Moment (Normal to hinge line) ft³	647.77	0.043

(PRODUCT OF AREA & MEAN CHORD)

TABLE III. (CONCLUDED)

MODEL COMPONENT: BODY - K2 COOLING INLET

GENERAL DESCRIPTION: COOLING INLET CONFIGURED TO VERTICAL TAIL V3.

SCALE MODEL = .0405

DRAWING NUMBER: _____

DIMENSIONS:	FULL-SCALE	MODEL SCALE
Length, IN.	213.790	_____
Max. Width	_____	_____
Max. [redacted] DIA. W/IN,	38.000	_____
Fineness Ratio	_____	_____
Area		
Max. Cross-Sectional	_____	_____
Planform	_____	_____
Wetted	_____	_____
Base	_____	_____

LOCATION:

B.P. = 0.00

W.P. = 21.829 IN. M.S.
538.987 IN. F.S.

FUS. STA. = 50.067 IN. M.S.
= 1236.210 IN. F.S.

NOTES:

1. POSITIVE DIRECTIONS OF FORCE COFFICIENTS MOMENT COEFFICIENTS, AND ANGLES ARE INDICATED BY ARROWS.

2. FOR CLARITY, ORIGINS OF WIND AND STABILITY AXES HAVE BEEN DISPLACED FROM THE CENTER OF GRAVITY.

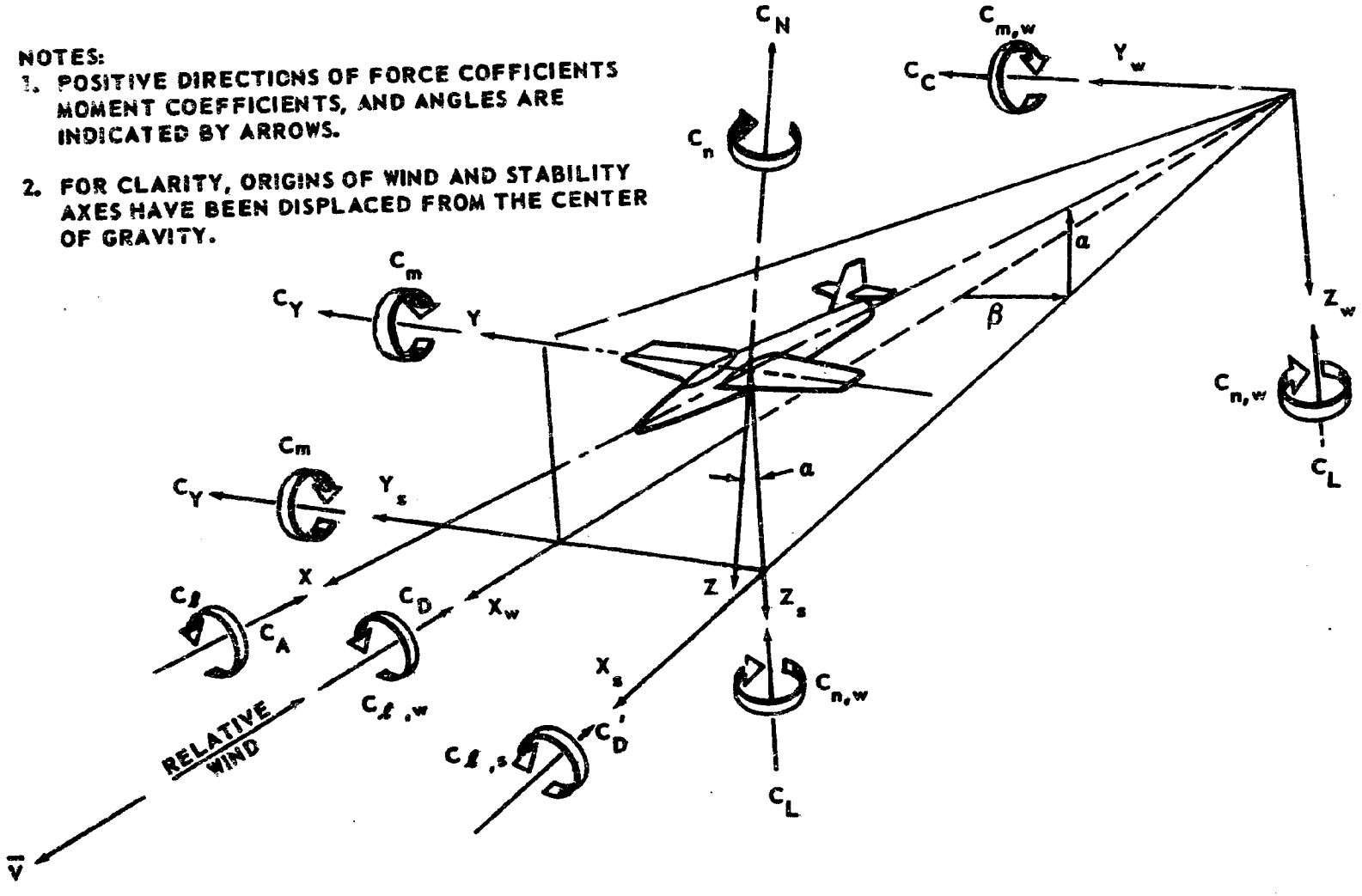
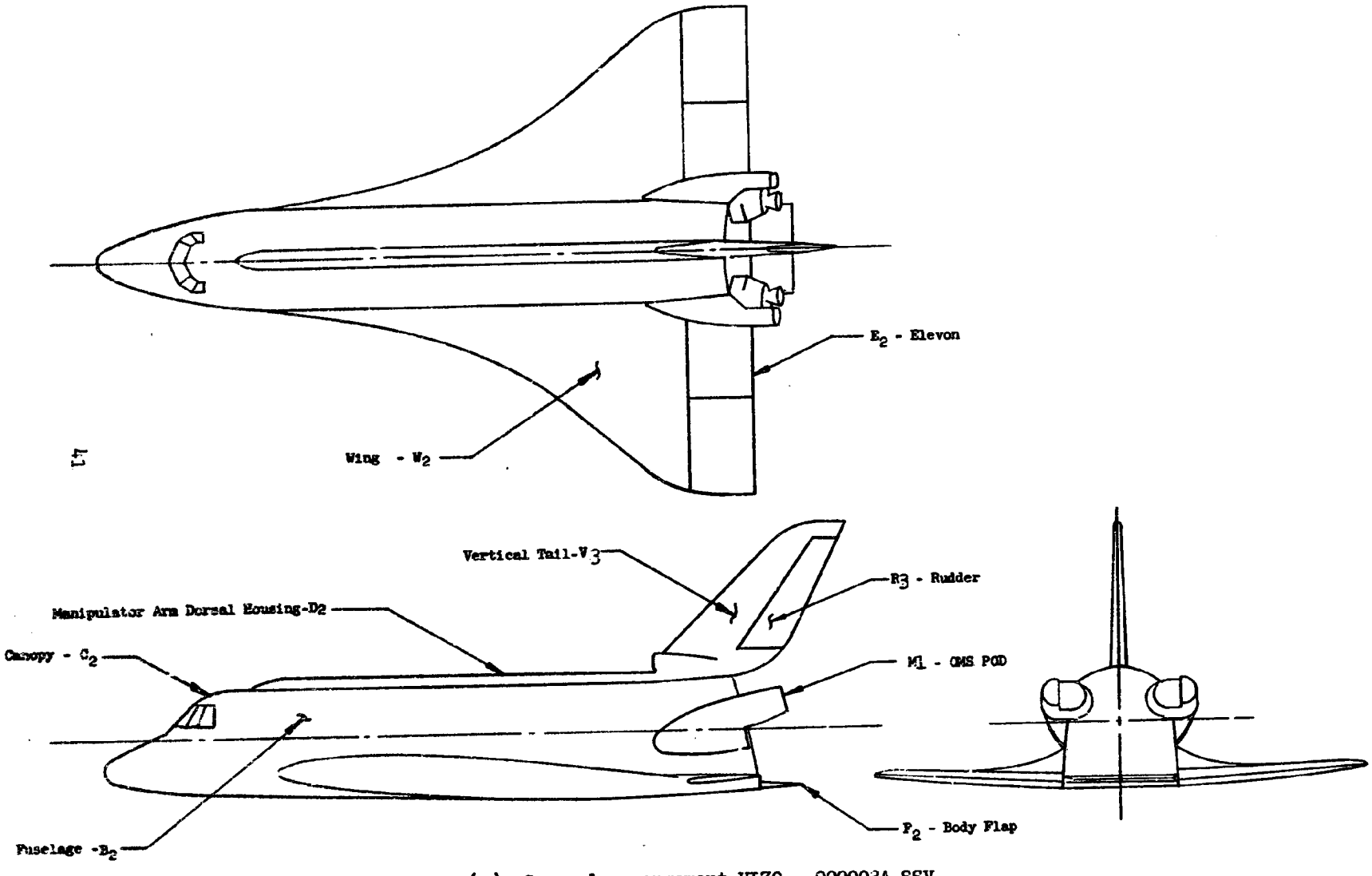
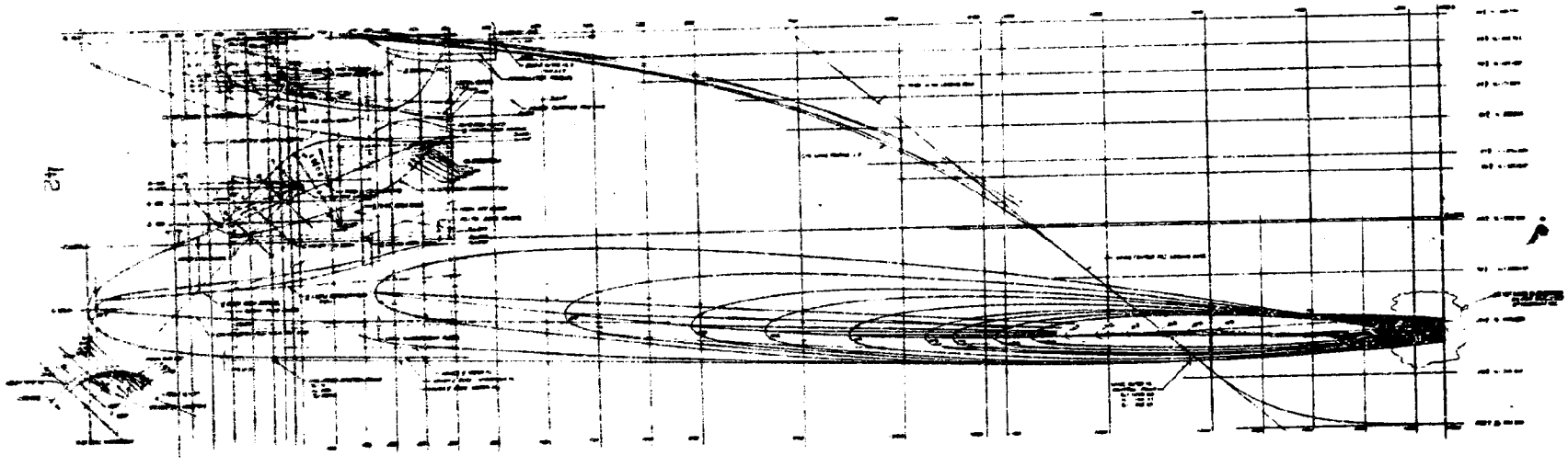


Figure 1. - Axis systems.



(a) General arrangement VL70 - 000003A SSV

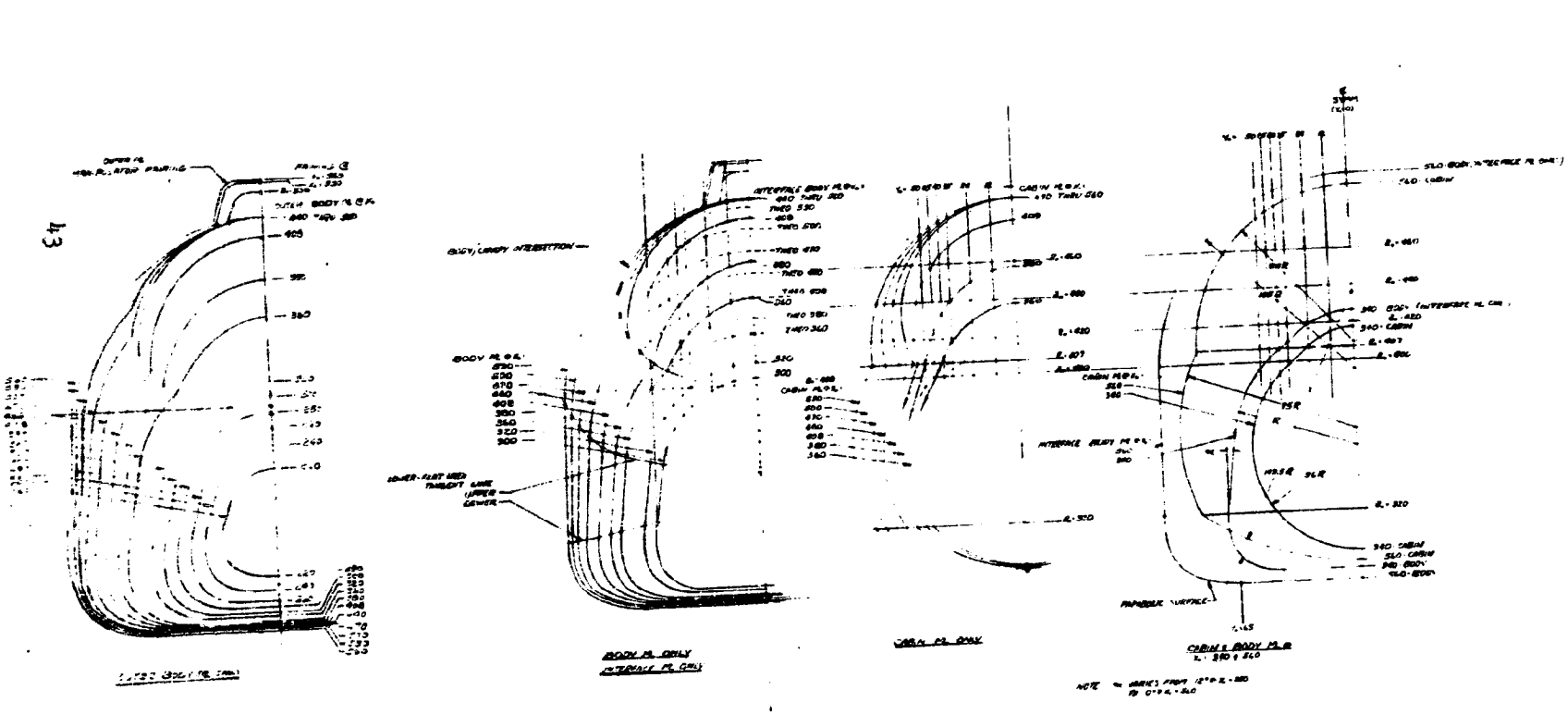
Figure 2. - Model and component details.



(b) Fuselage, B_2 - VL70 - 000003A

Figure 2. - Continued.

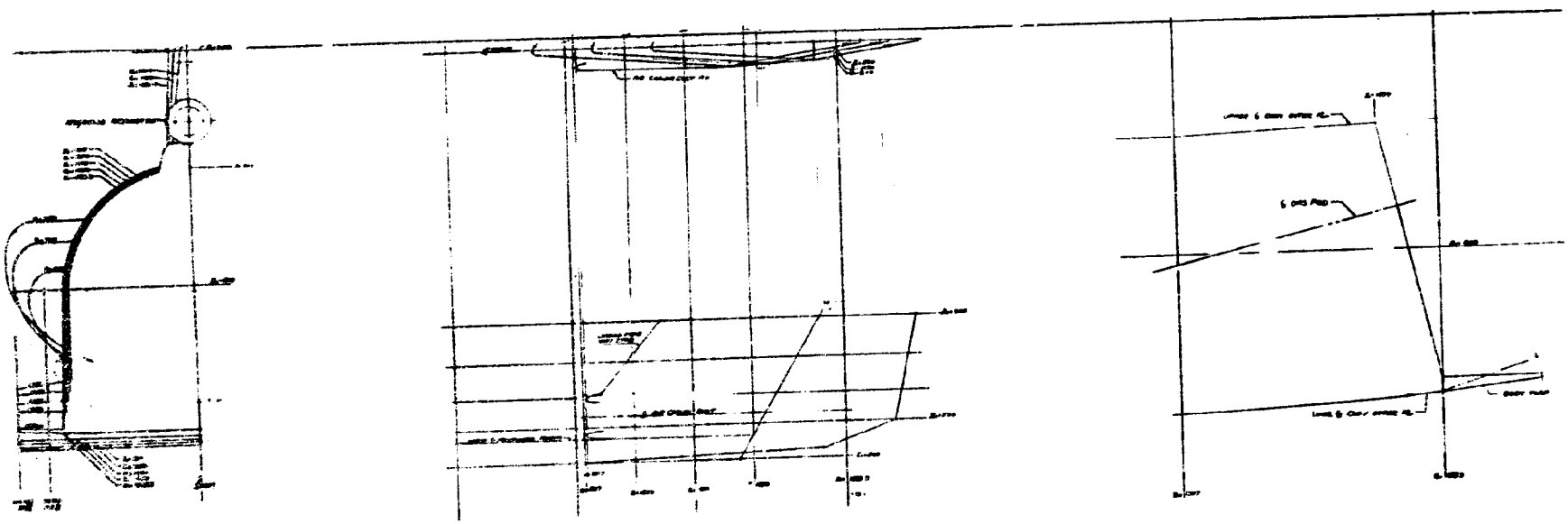
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(c) Fuselage, B_2 - VL70 - 000003A

Figure 2. - Continued.

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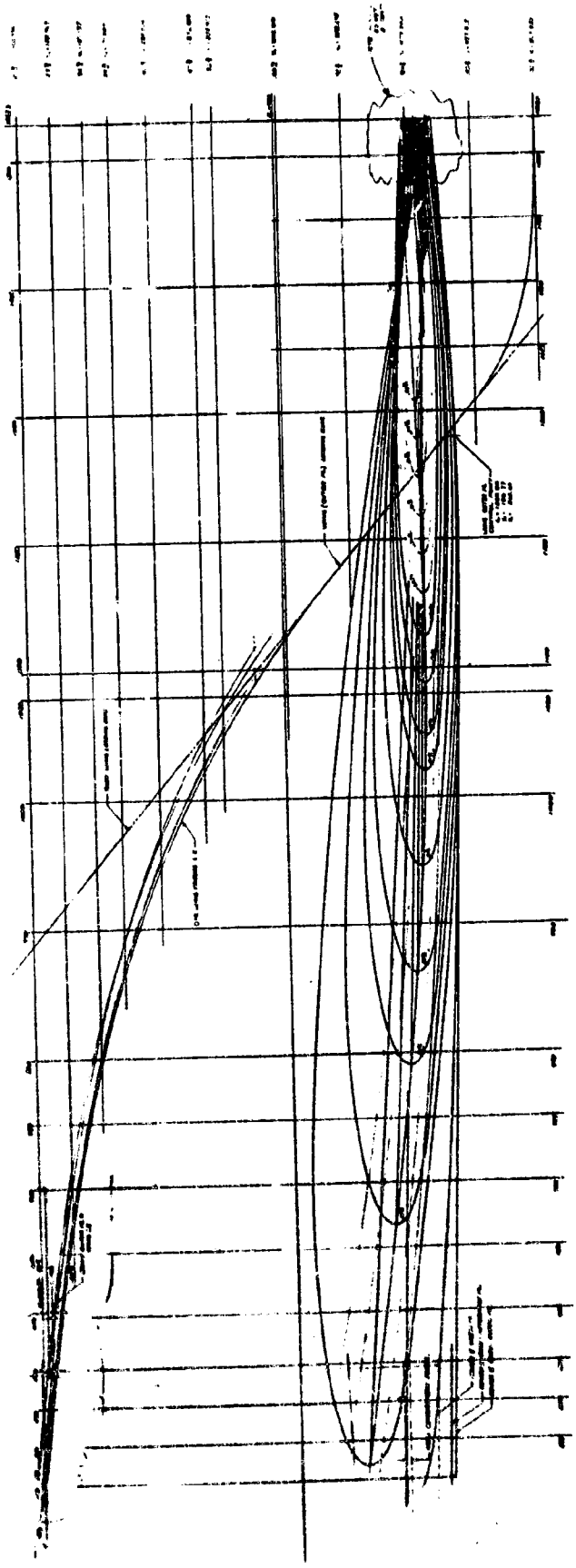


(d) Aft Fuselage, B_2 - VL70 - 000003A

Figure 2. - Continued.

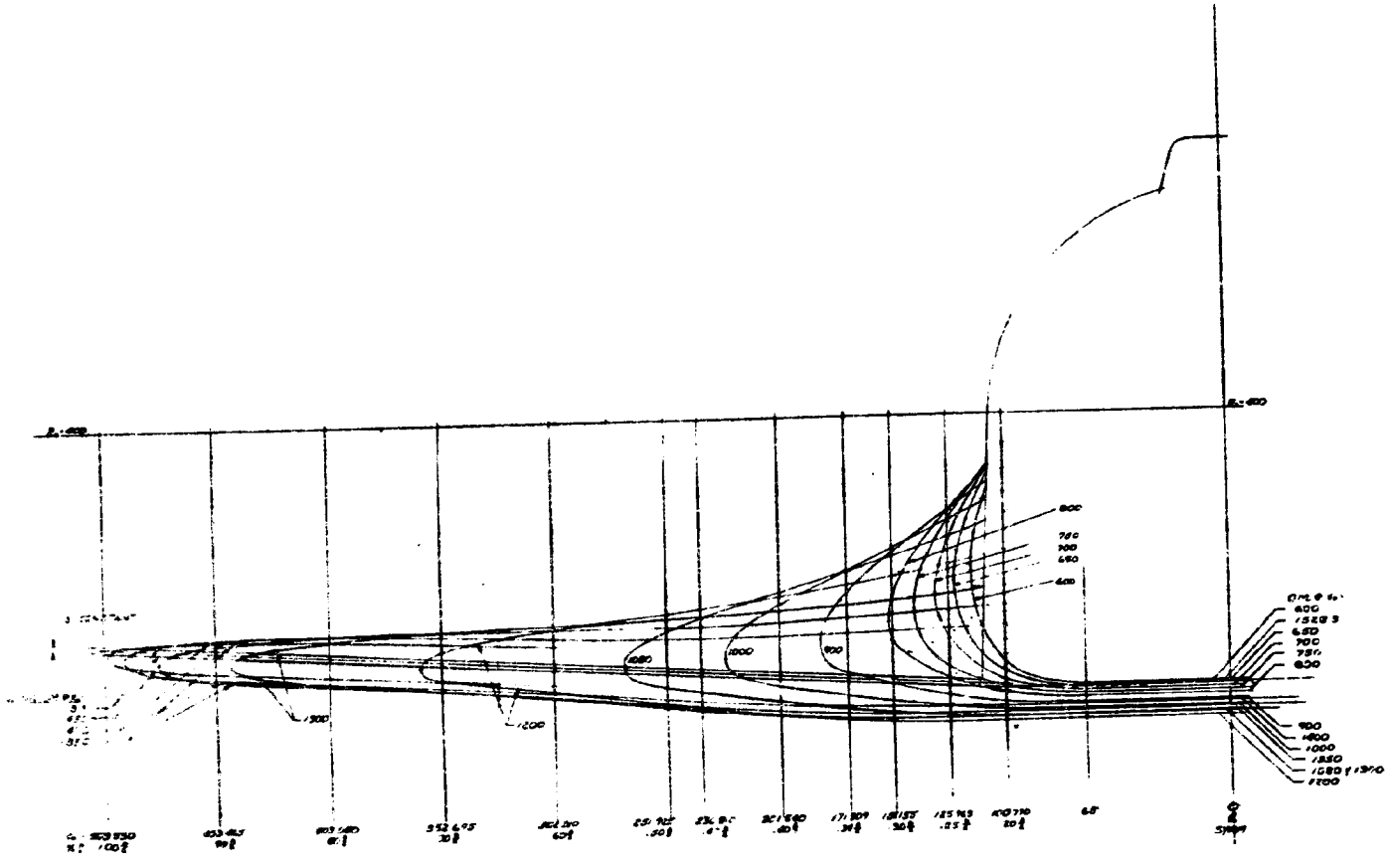
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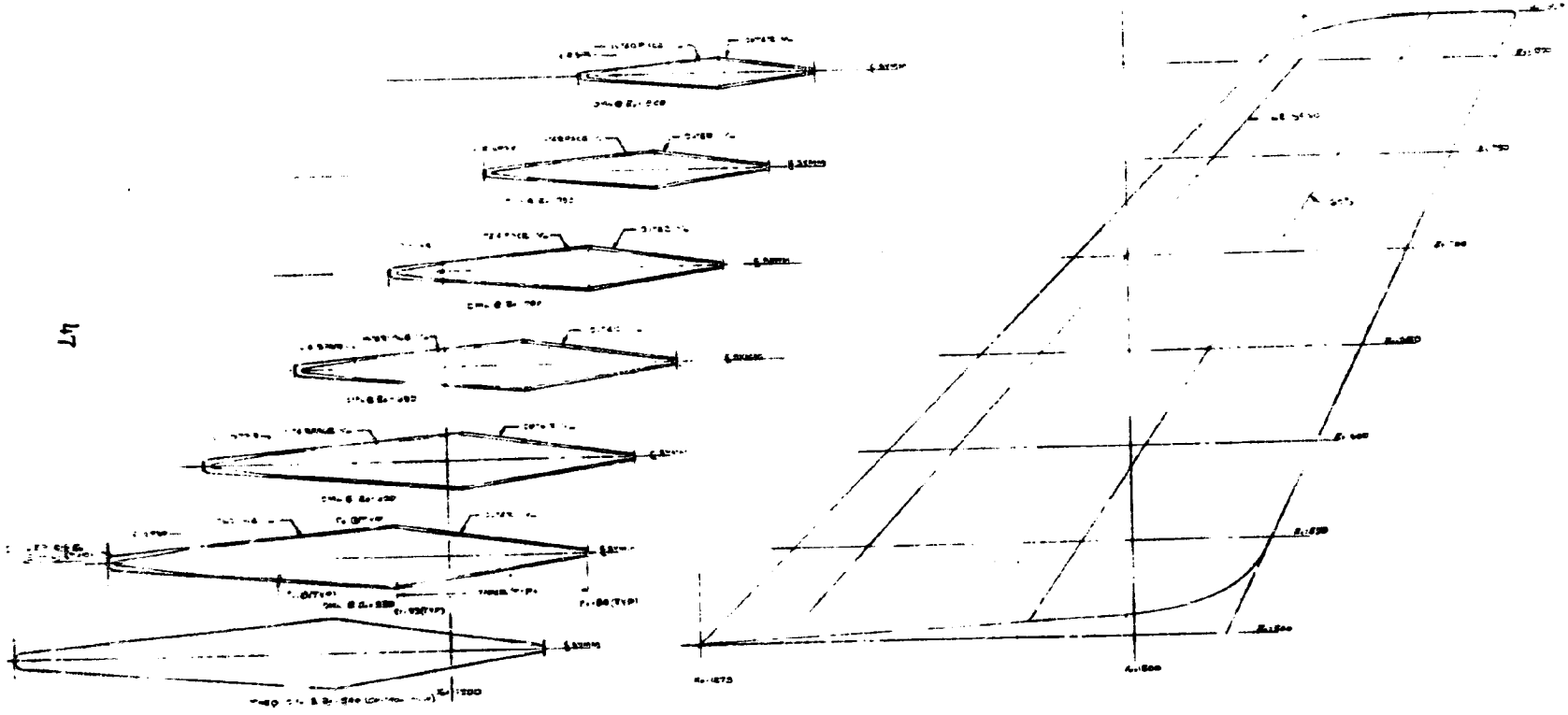
(e) Wing, W_2 - VL70 - 000003A

Figure 2. - Continued.



(f) Wing, W_2 - VL70 - 000003A

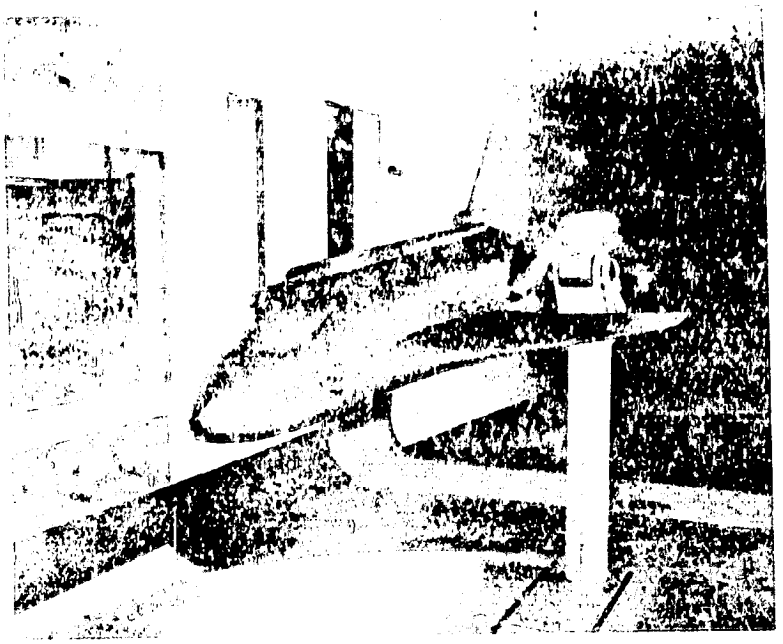
Figure 2. - Continued.



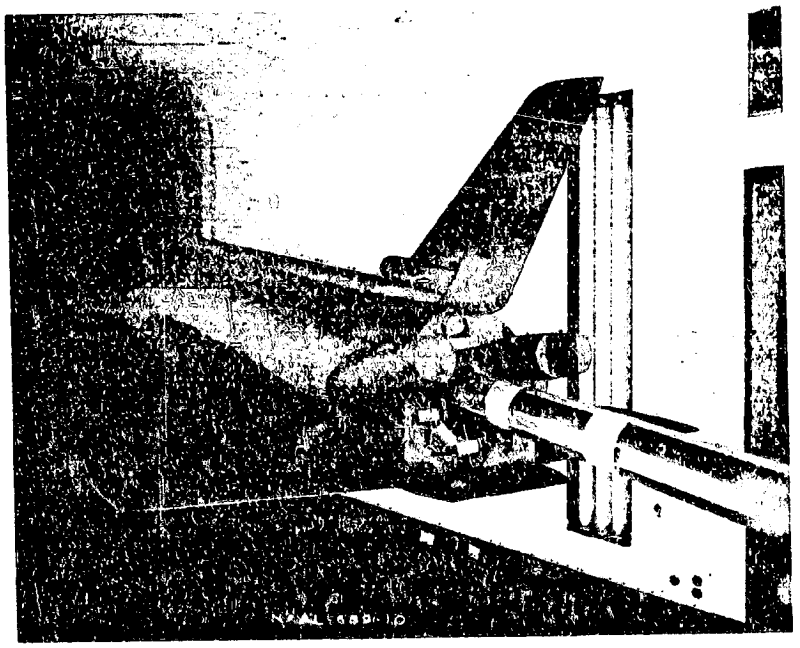
(g) Vertical Tail, V_3 - VL70 - 007005A

Figure 2. - Concluded.

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Front View, NAAL Installation
Configuration $B_2C_2D_2M_1F_1W_2V_3K_2$



Rear View, NAAL Installation
Configuration $B_2C_2D_2M_1F_1W_2V_3K_2$ + Base Pressures

Figure 3. - Installation of the 0.0405 scale SSV Orbiter in the NAAL LSWT.

DATA FIGURES

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REPRODUCIBILITY OF THE ORIGINAL PAGE

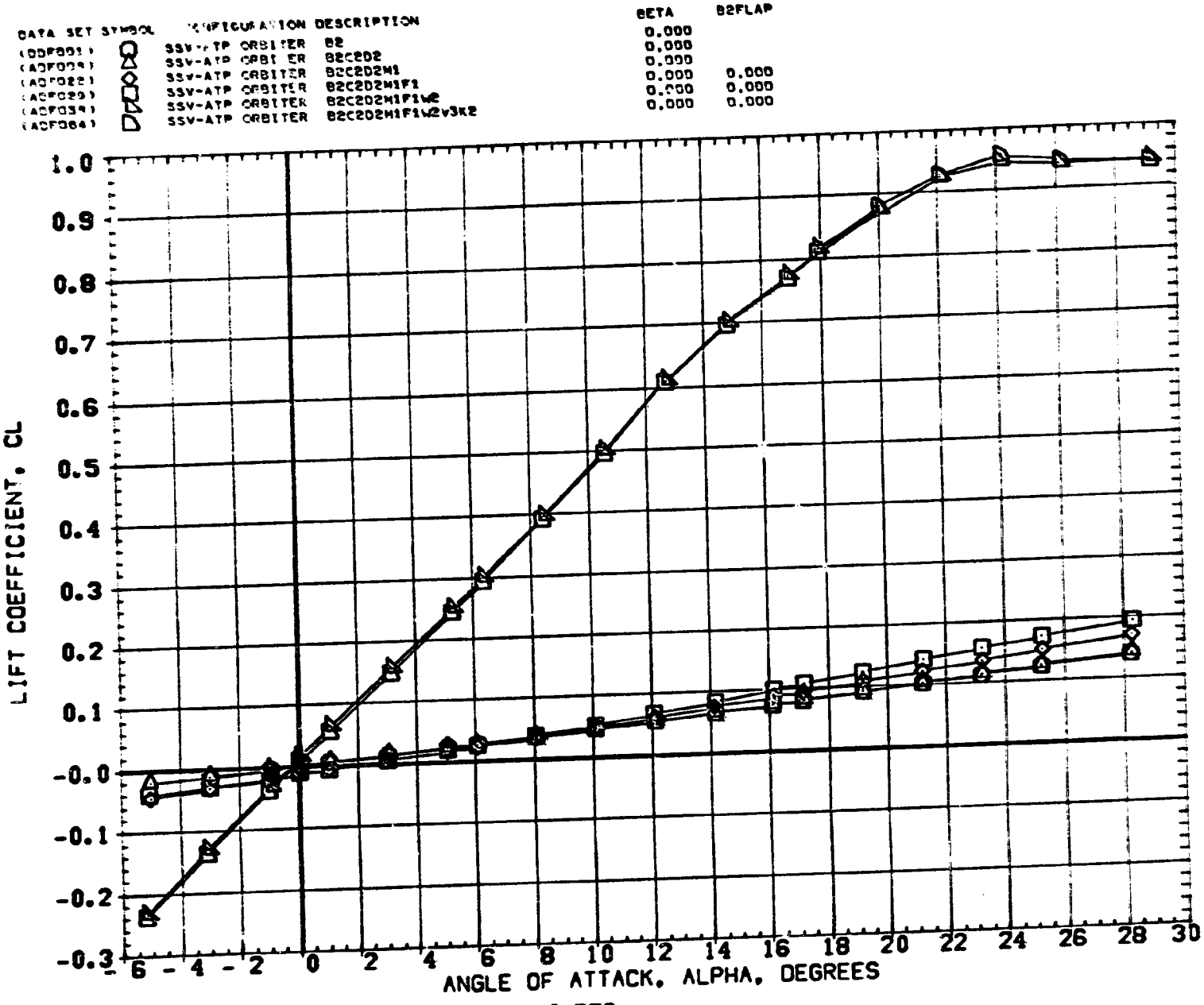


FIG. 4 COMPONENT BUILDUP, BETA= 0 DEG.

(A)MACH = 0.26

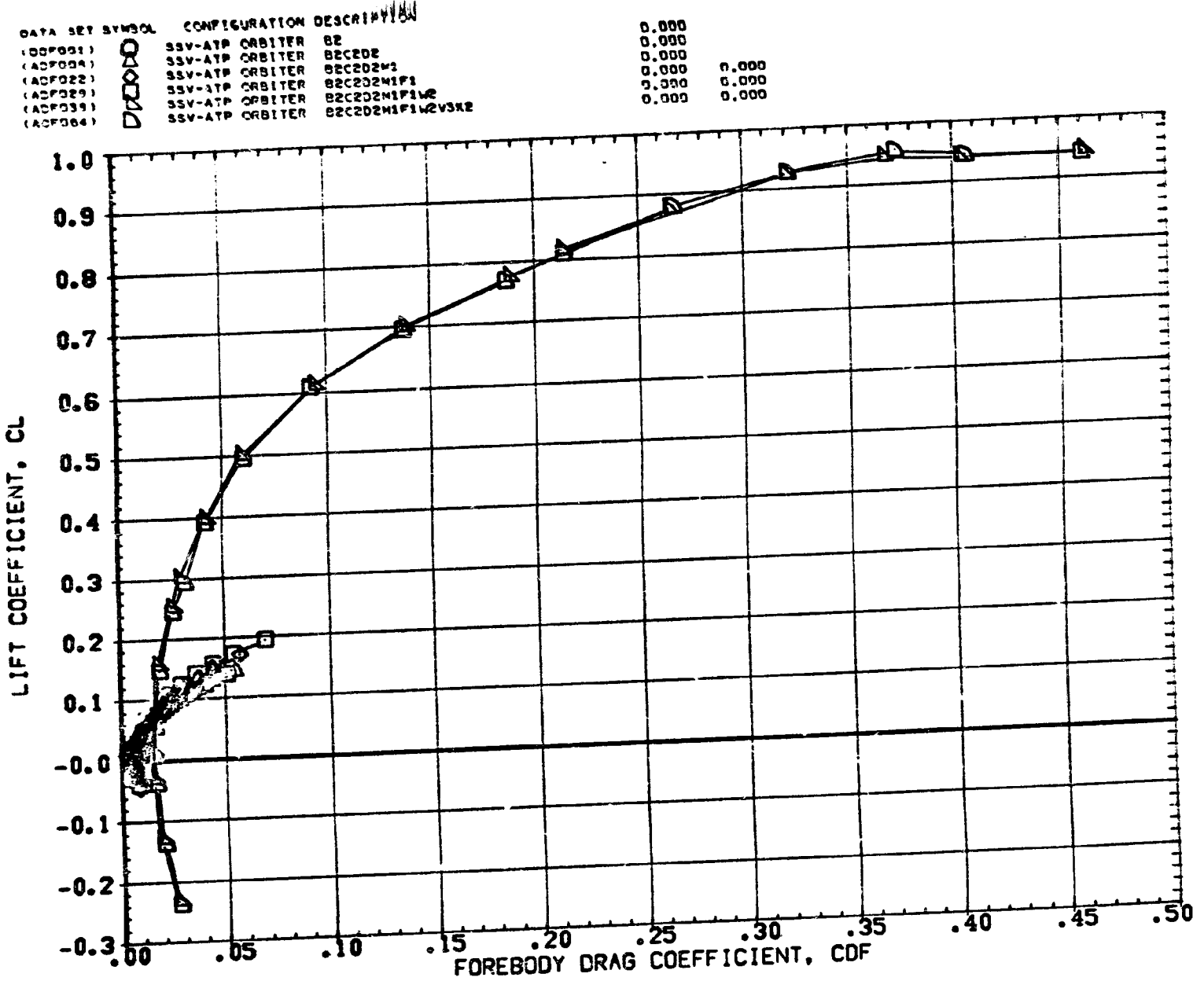


FIG. 4 COMPONENT BUILDUP, BETA= 0 DEG.

(A)MACH = 0.26

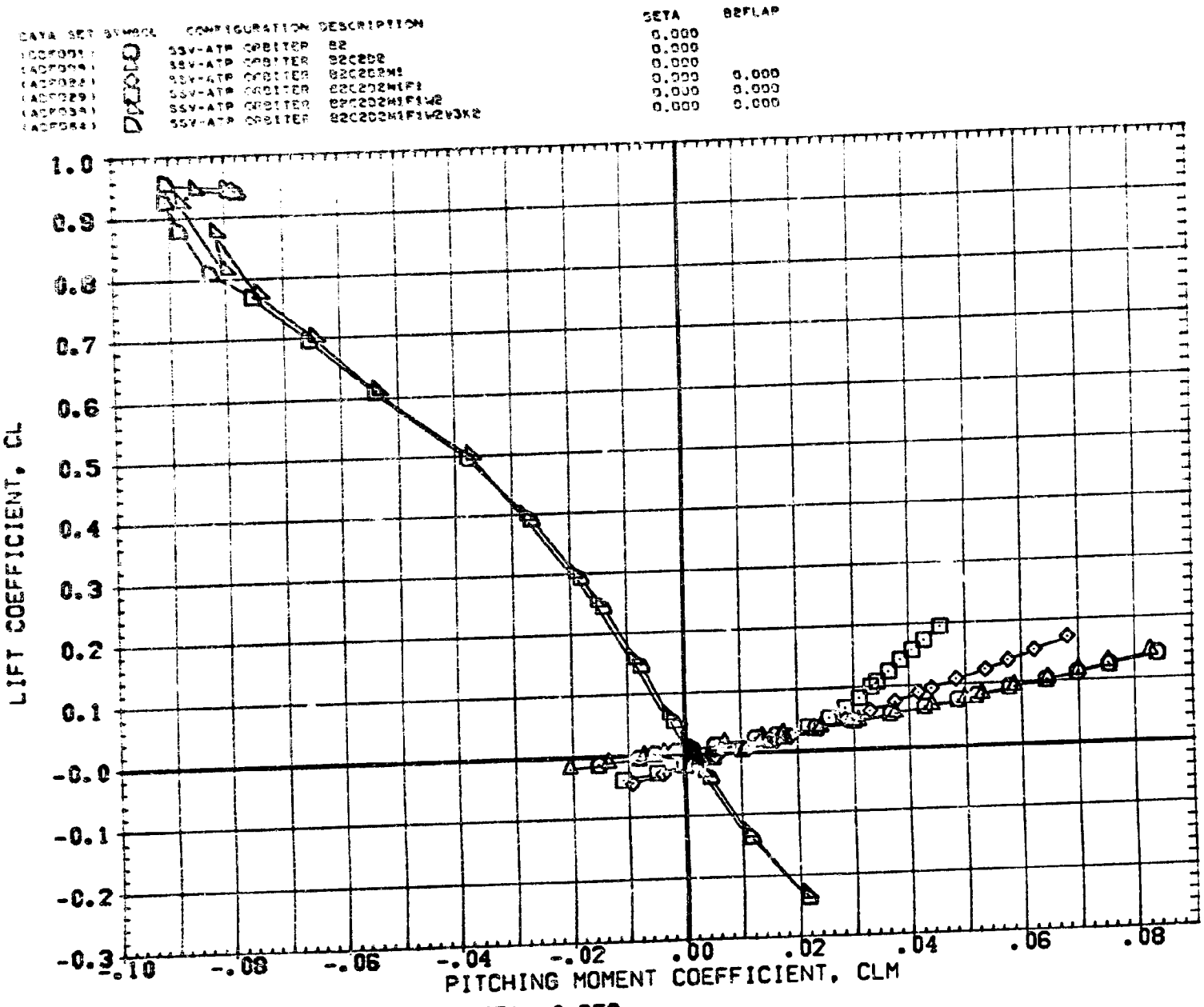


FIG. 4 COMPONENT BUILDUP, BETA= 0 DEG.

(A)MACH = 0.26

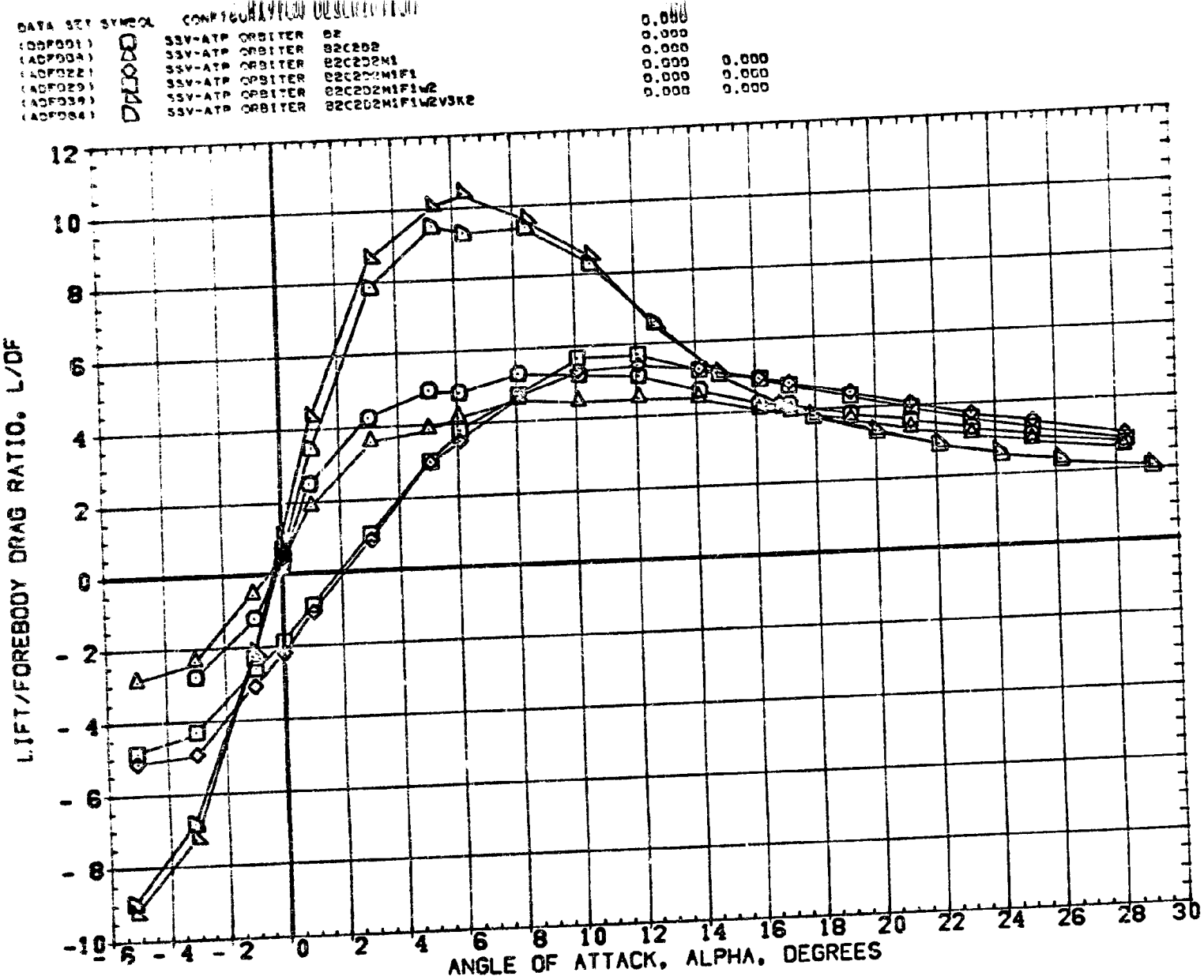


FIG. 4 COMPONENT BUILDUP, BETA= 0 DEG.

(A)MACH = 0.26

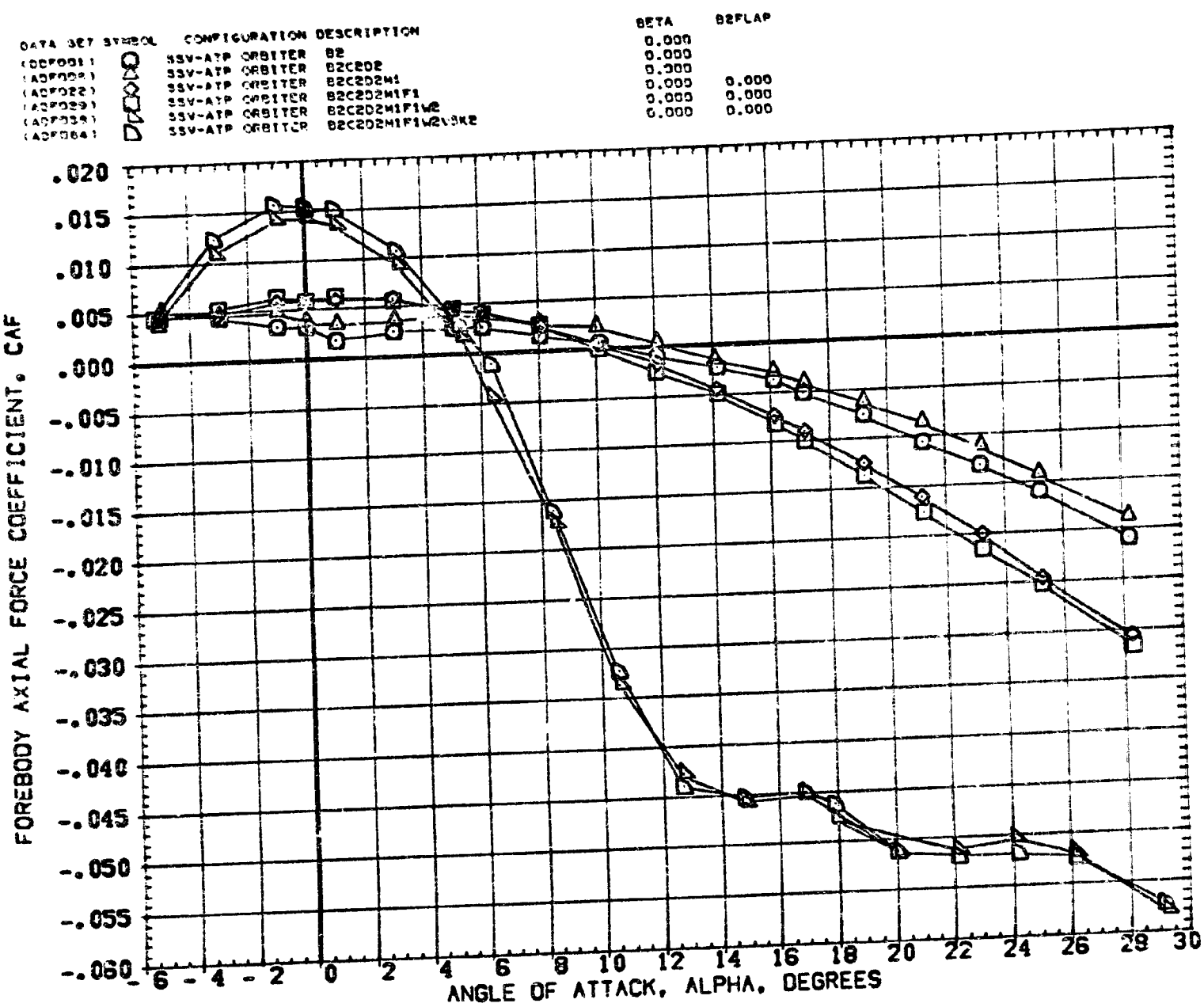


FIG. 4 COMPONENT BUILDUP, BETA= 0 DEG.

(A)MACH = 0.26

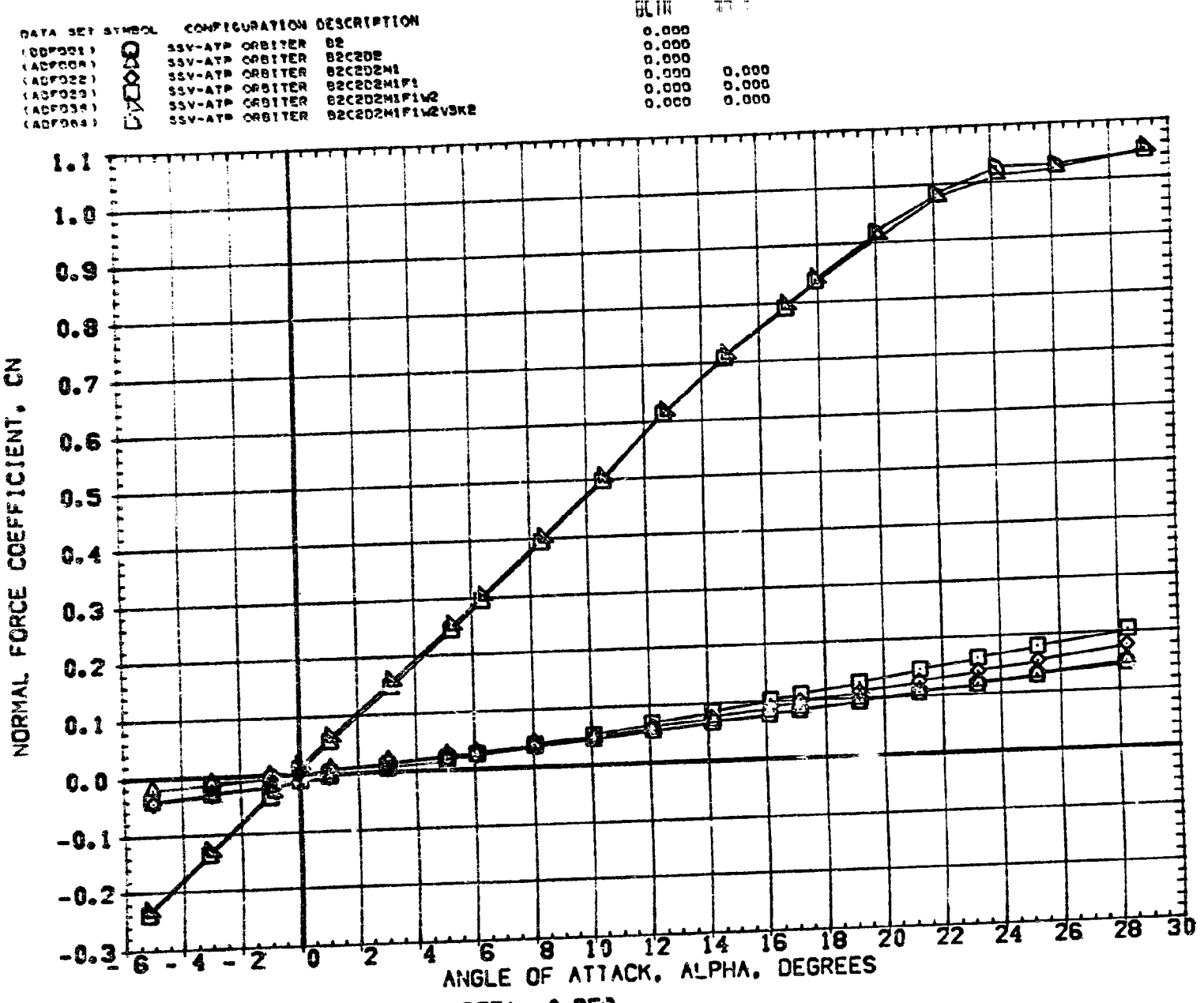


FIG. 4 COMPONENT BUILDUP, BETA= 0 DEG.

(A)MACH = 0.26

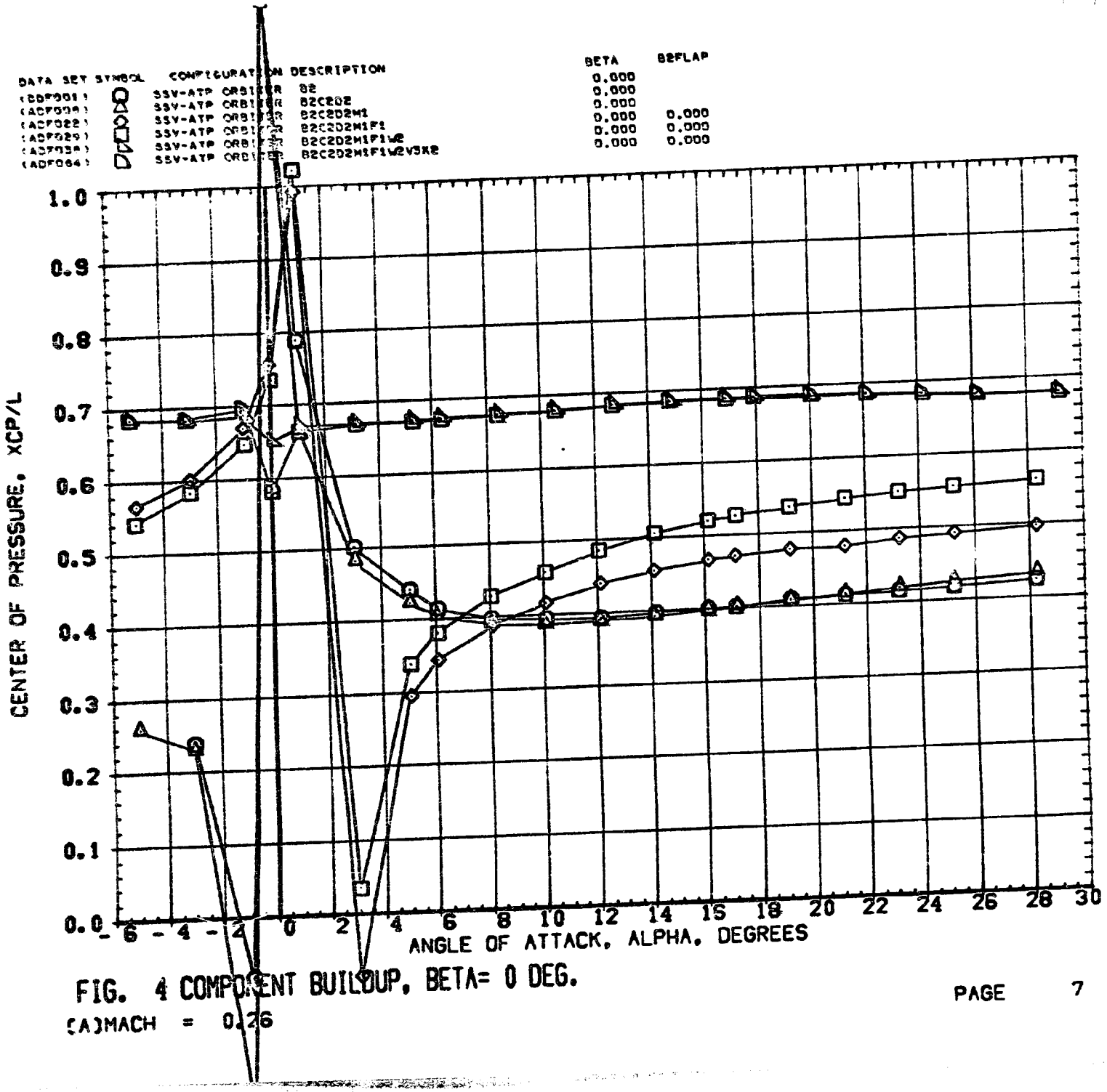


FIG. 4 COMPONENT BUILDUP, BETA= 0 DEG.

(A)MACH = 0.26

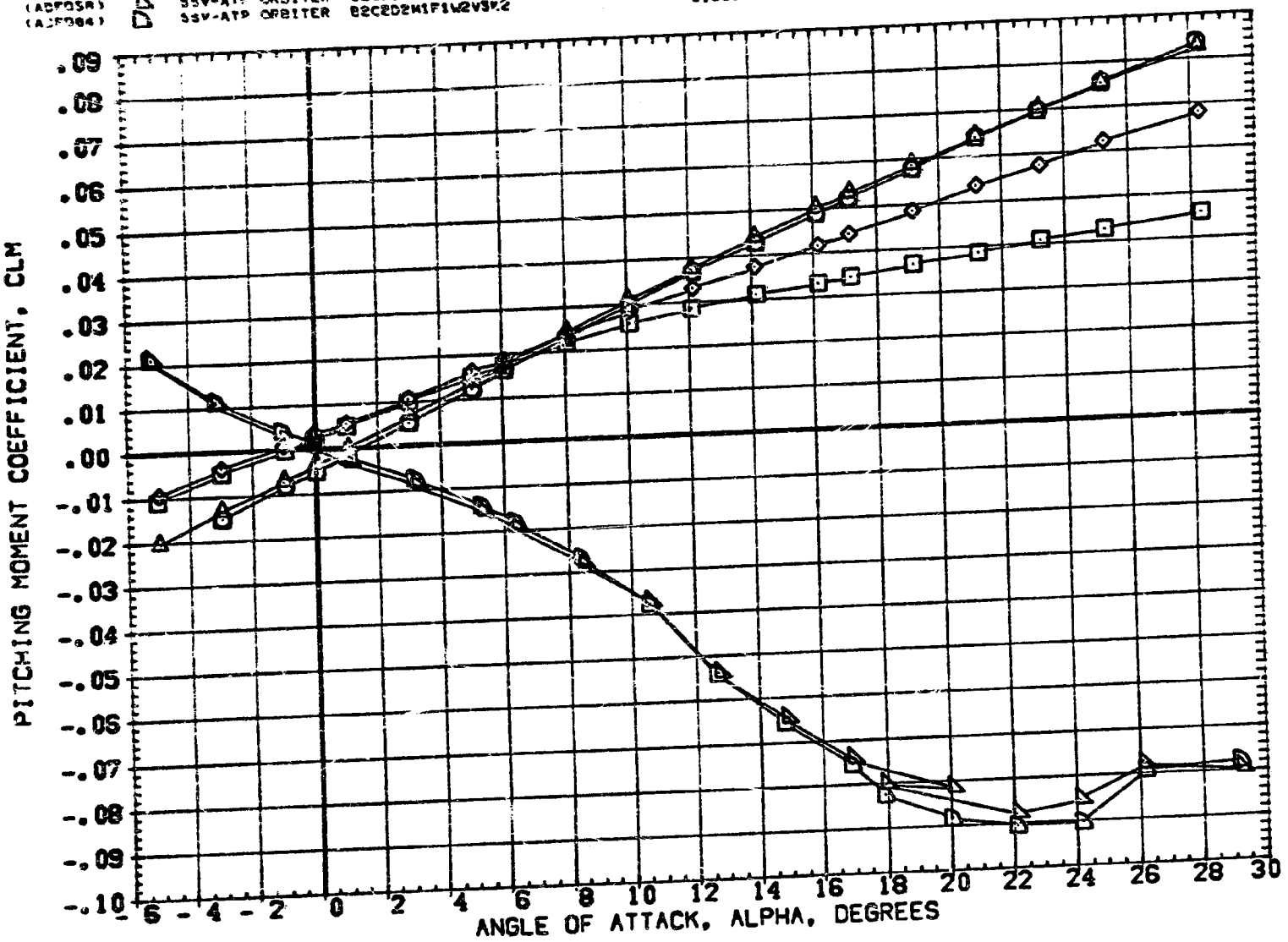


FIG. 4 COMPONENT BUILDUP, BETA= 0 DEG.

(A)MACH = 0.26

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ALPHA	BEFLAP
(BDF002)	SSV-ATP ORBITER B2	0.000	
(BDF009)	SSV-ATP ORBITER B2C2D2	0.000	
(BDF025)	SSV-ATP ORBITER B2C2D2H1	0.000	0.000
(BDF030)	SSV-ATP ORBITER B2C2D2H1F1	0.000	0.000
(BDF039)	SSV-ATP ORBITER B2C2D2H1F1W2	0.000	0.000
(BDF065)	SSV-ATP ORBITER B2C2D2H1F1W2V3K2		

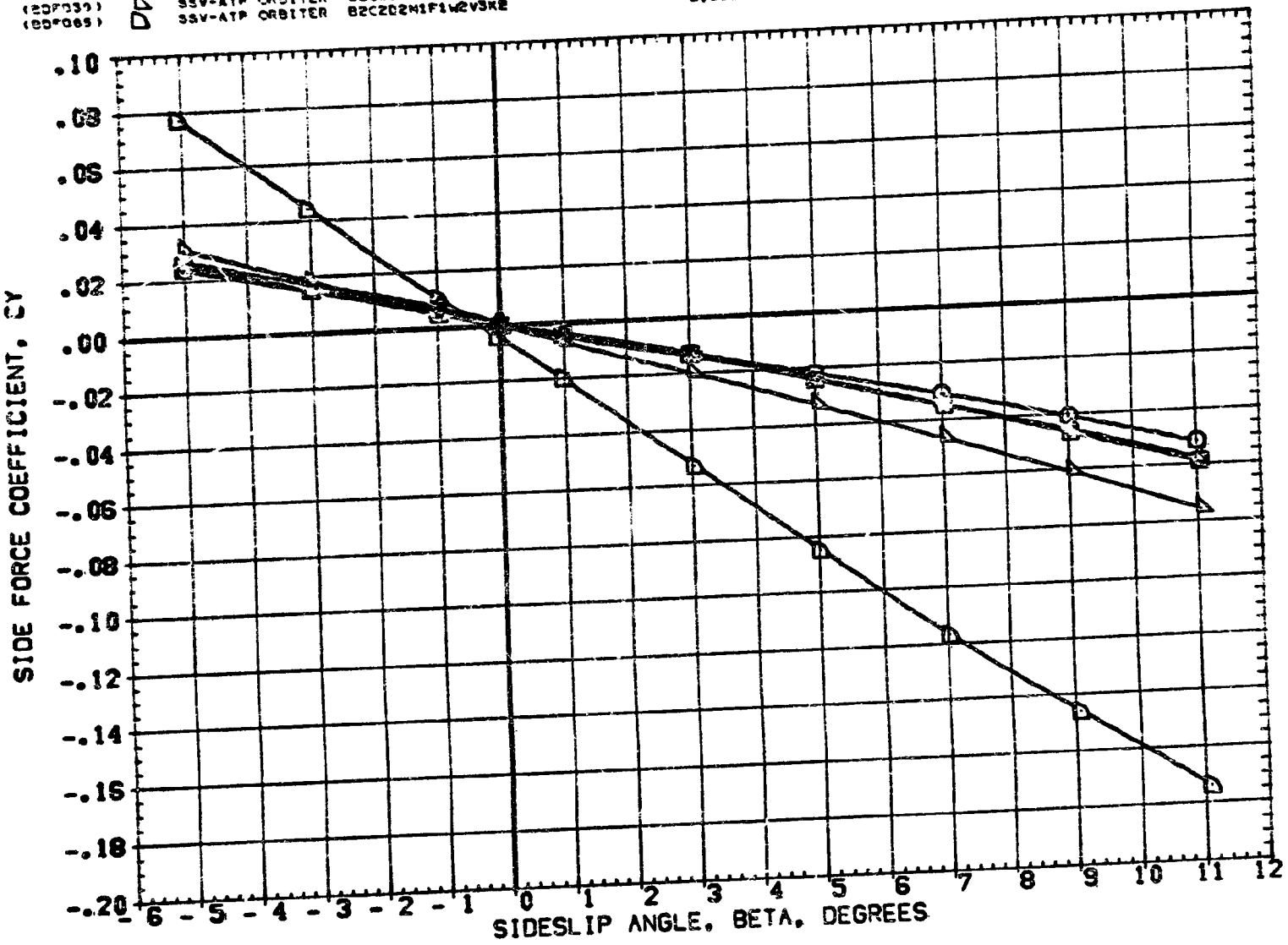


FIG. 5 COMPONENT BUILDUP, ALPHA= 0 DEG.

(A)MACH = 0.26

DATA SET SYMBOL	CONFIGURATION DESCRIPTION		ALT (FT)	
(80F002)	SSV-ATP ORBITER	B2	0.000	
(80F039)	SSV-ATP ORBITER	B2C2D2	0.000	
(80F03F)	SSV-ATP ORBITER	B2C2D2M1	0.000	
(80F03D)	SSV-ATP ORBITER	B2C2D2M1F1	0.000	0.000
(80F03B)	SSV-ATP ORBITER	B2C2D2M1F1W2	0.000	0.000
(80F065)	SSV-ATP ORBITER	B2C2D2M1F1W2V3R2	0.000	0.000

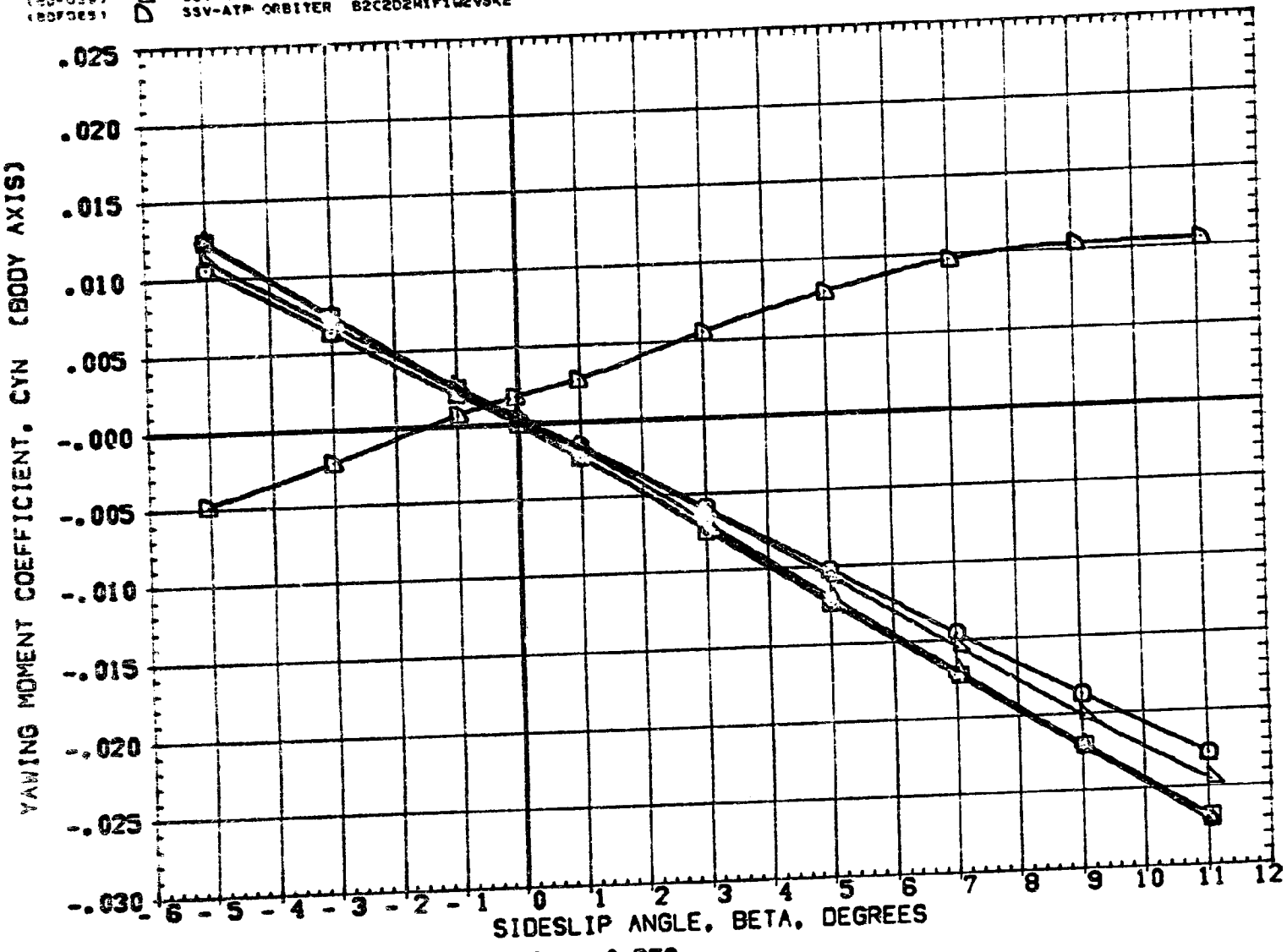


FIG. 5 COMPONENT BUILDUP, ALPHA= 0 DEG.

(A)MACH = 0.26

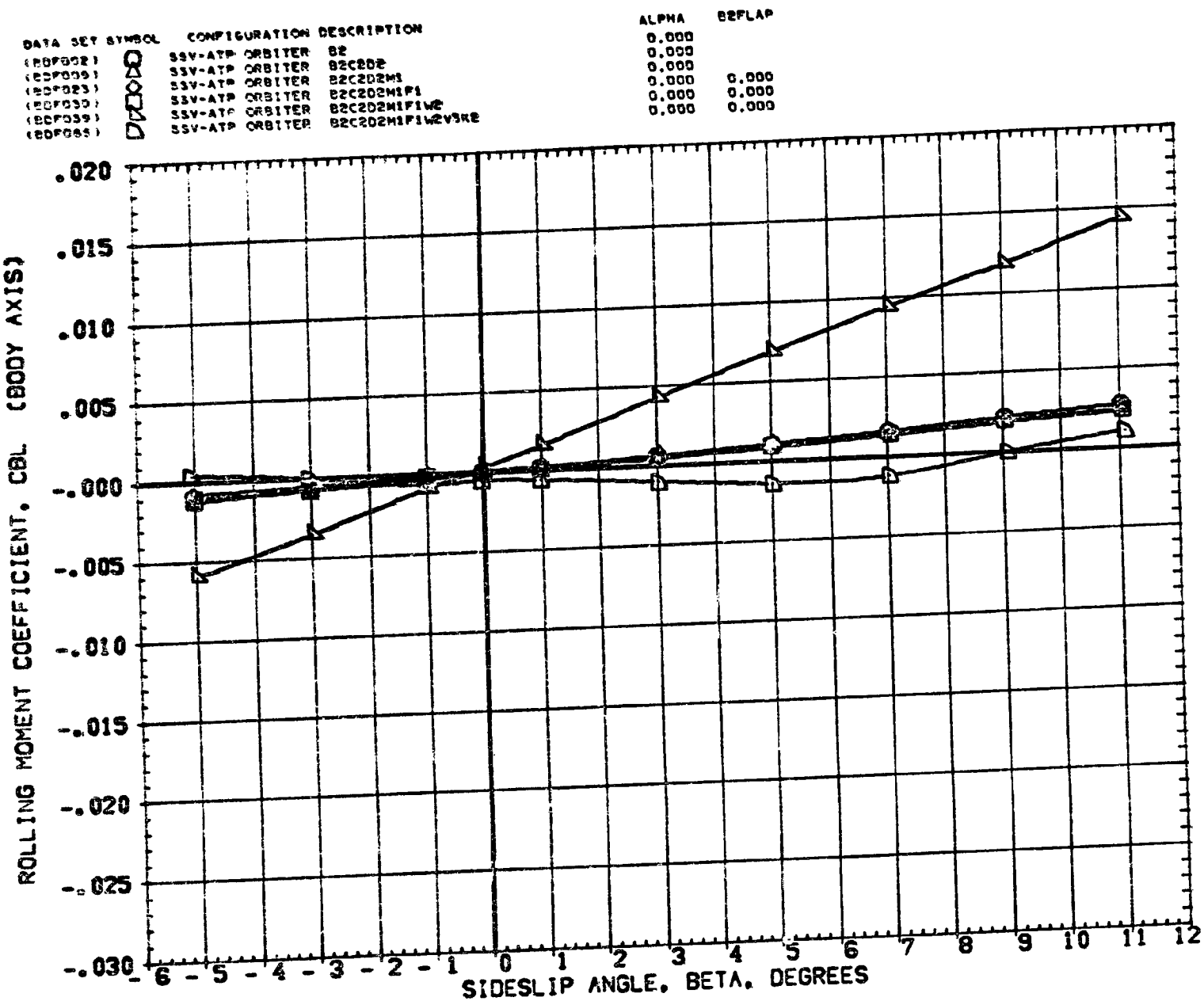


FIG. 5 COMPONENT BUILDUP, ALPHA= 0 DEG.

(A)MACH = 0.26

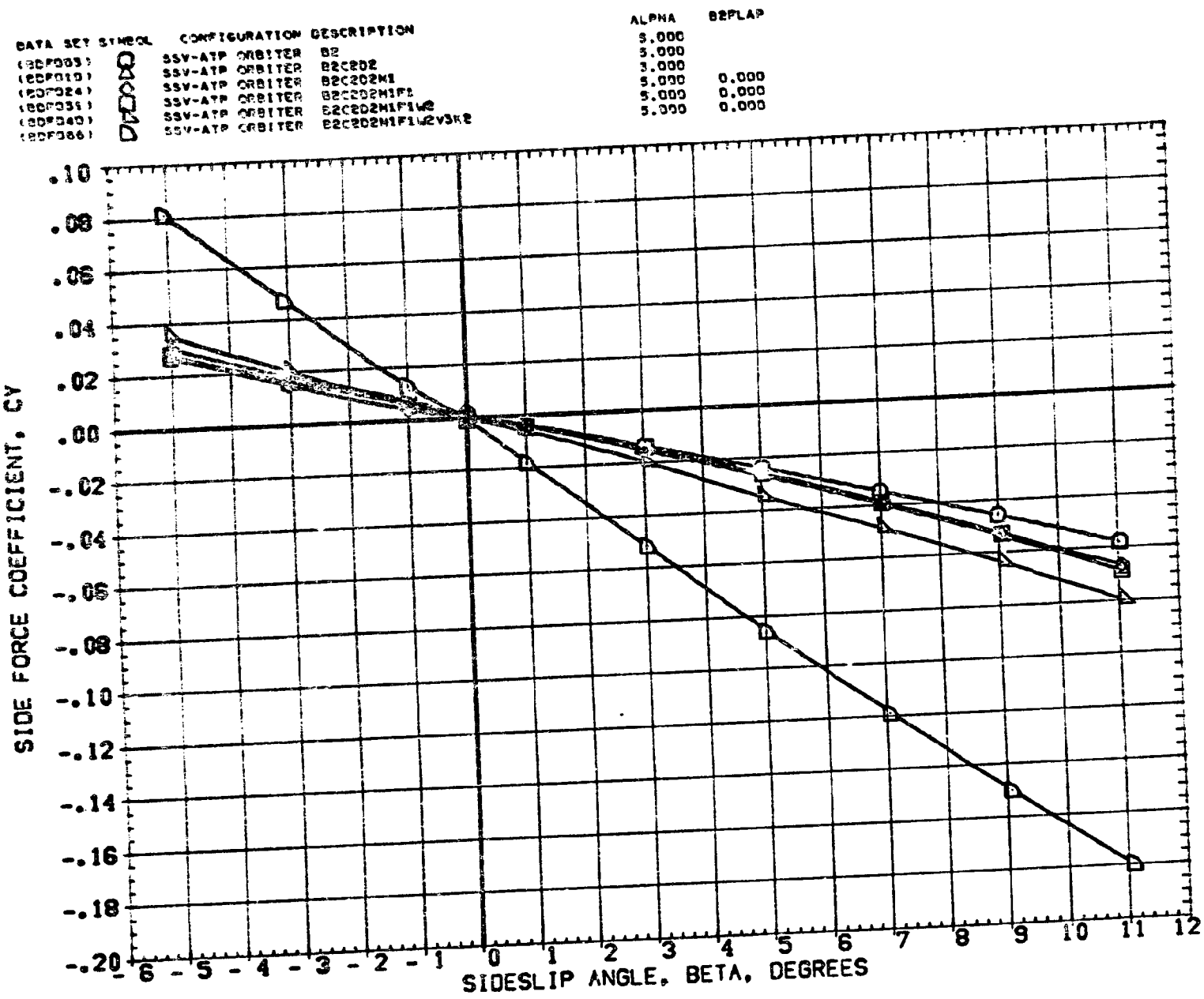


FIG. 6 COMPONENT BUILDUP, ALPHA= 5 DEG.

(A)MACH = 0.26

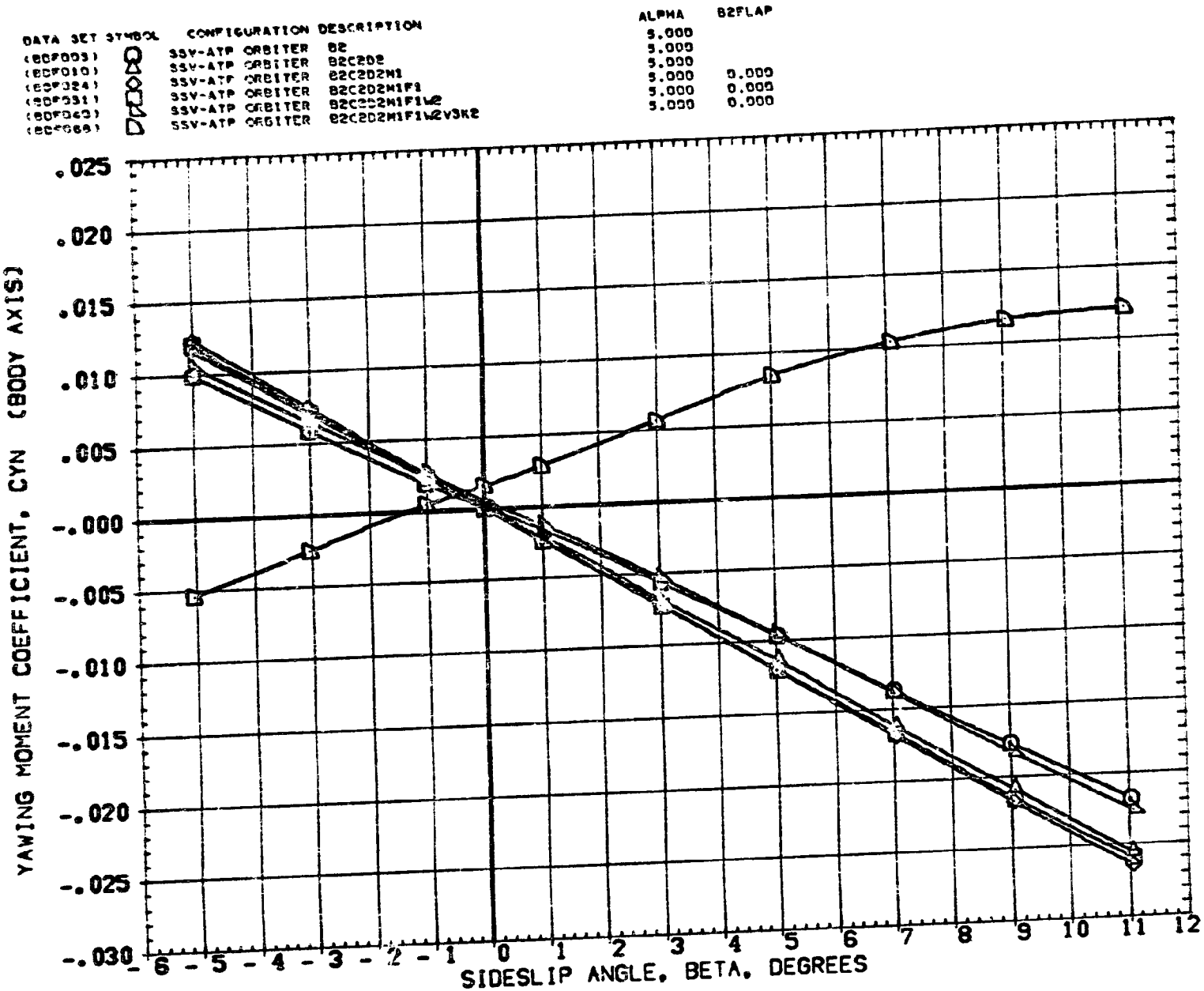


FIG. 6 COMPONENT BUILDUP, ALPHA= 5 DEG.

(A)MACH = 0.26

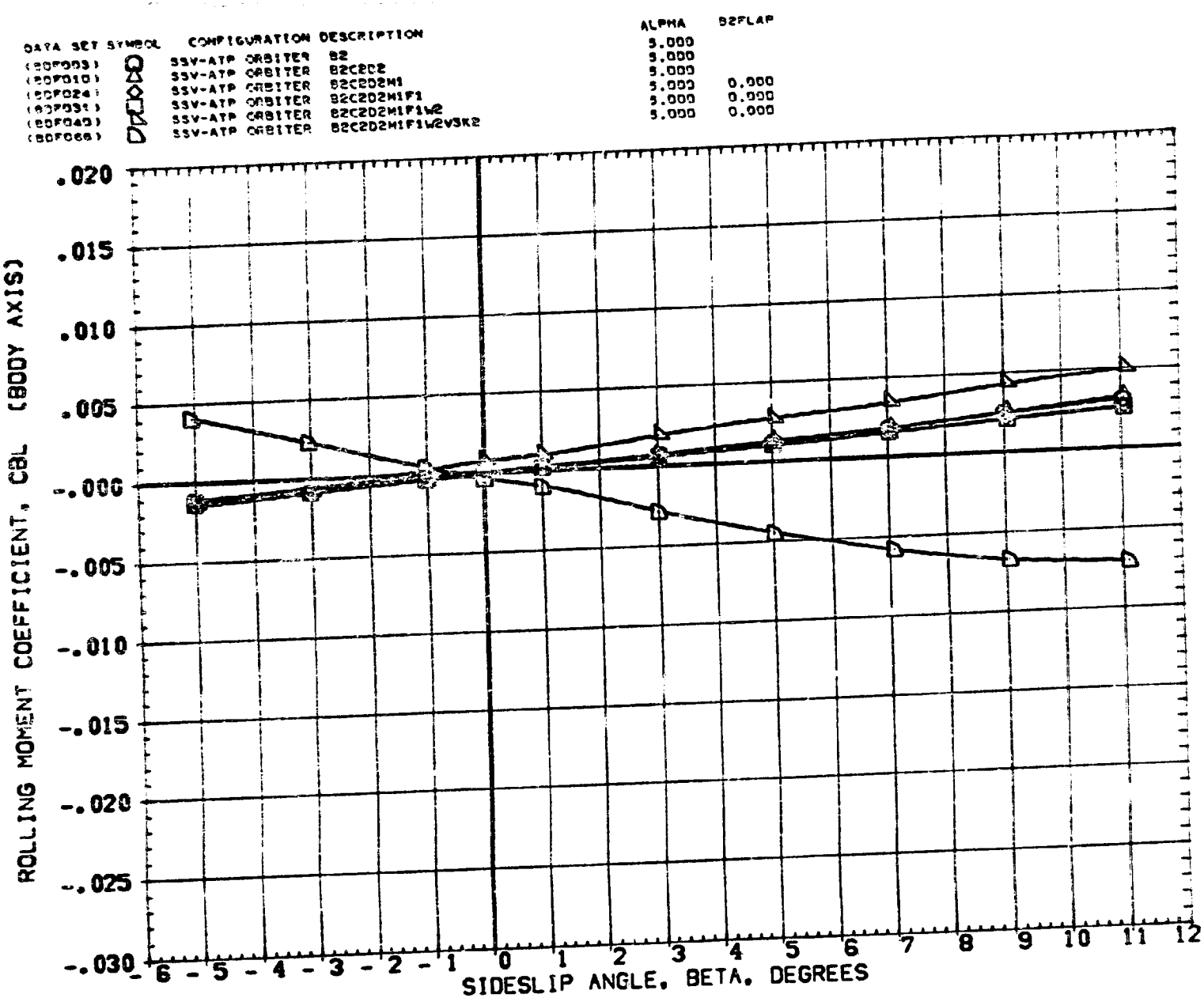


FIG. 6 COMPONENT BUILDUP, ALPHA= 5 DEG.

(A)MACH = 0.26

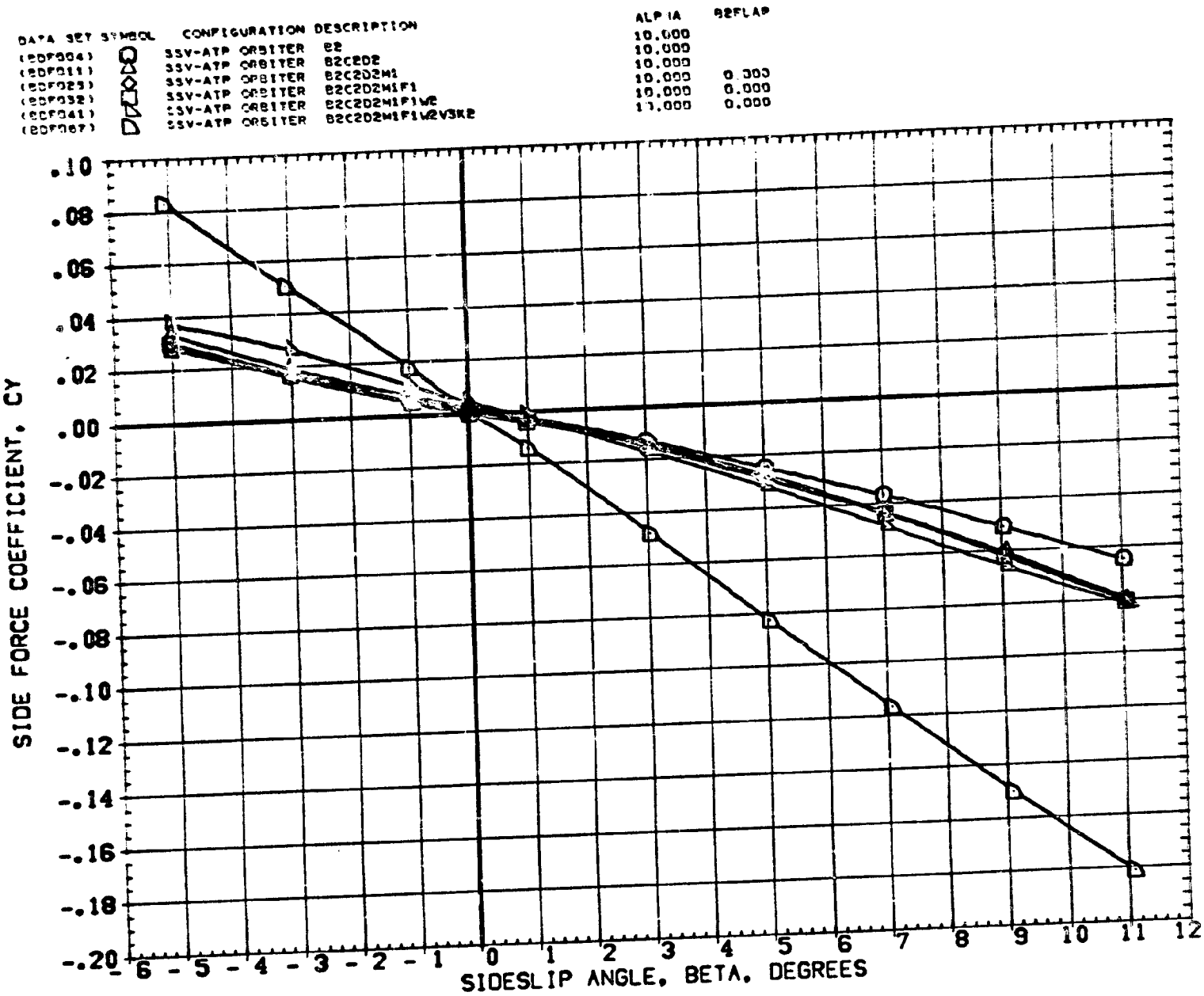


FIG. 7 COMPONENT BUILDUP, ALPHA= 10 DEG.

(A)MACH = 0.26

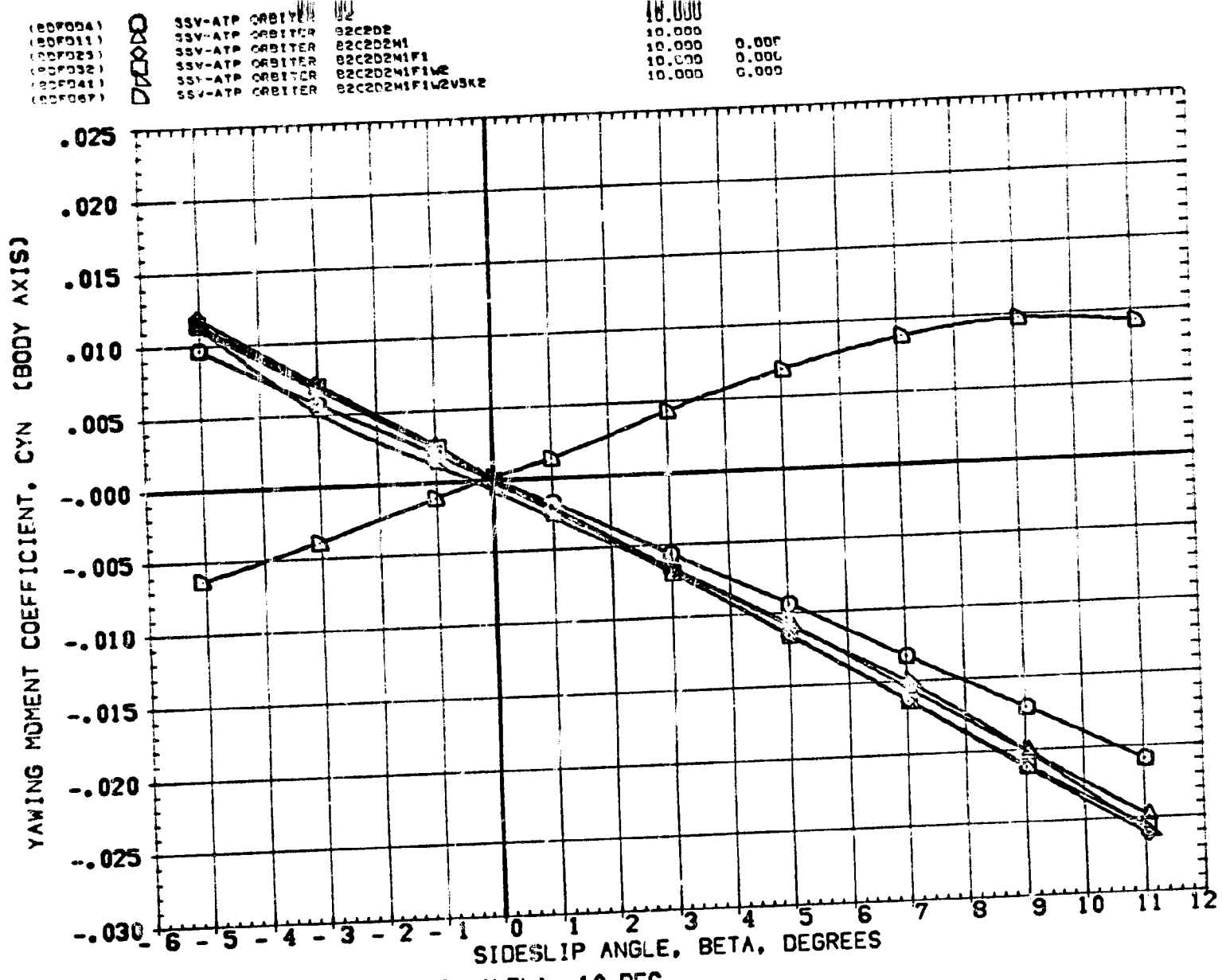


FIG. 7 COMPONENT BUILDUP, ALPHA= 10 DEG.

(A)MACH = 0.26

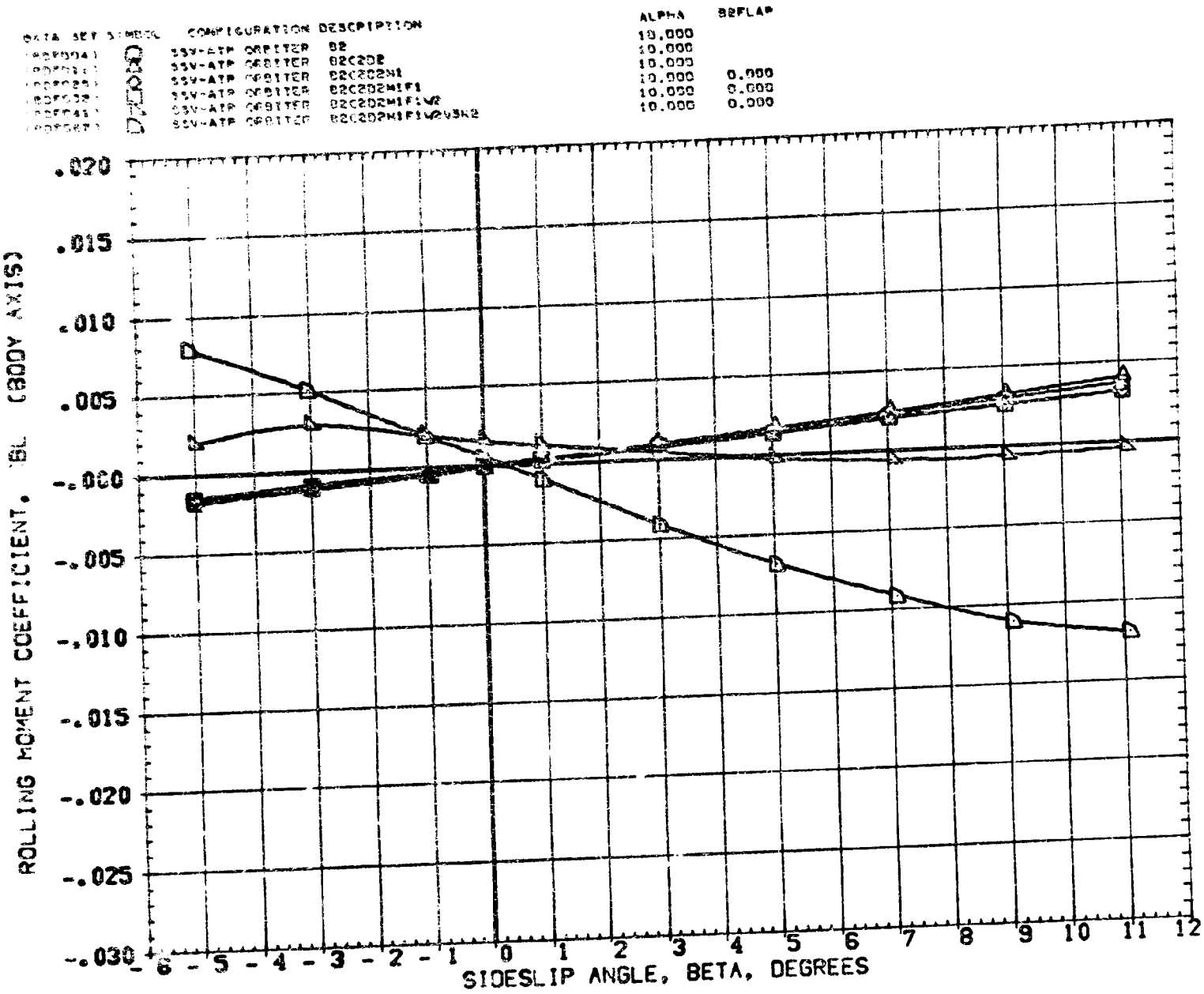


FIG. 7 COMPONENT BUILDUP, ALPHA= 10 DEG.

(A)MACH = 0.26

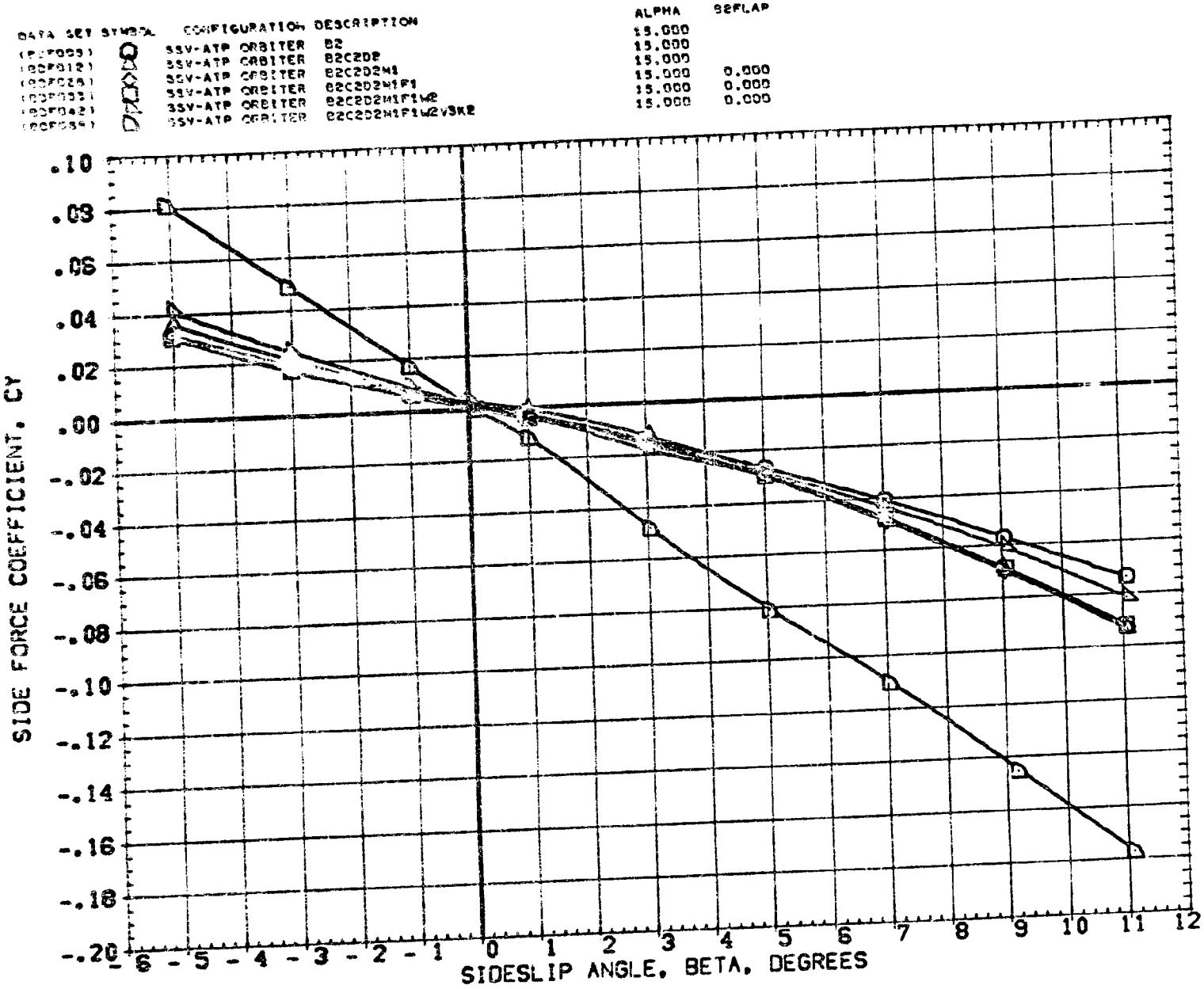


FIG. 8 COMPONENT BUILDUP, ALPHA= 15 DEG.

(A)MACH = 0.26

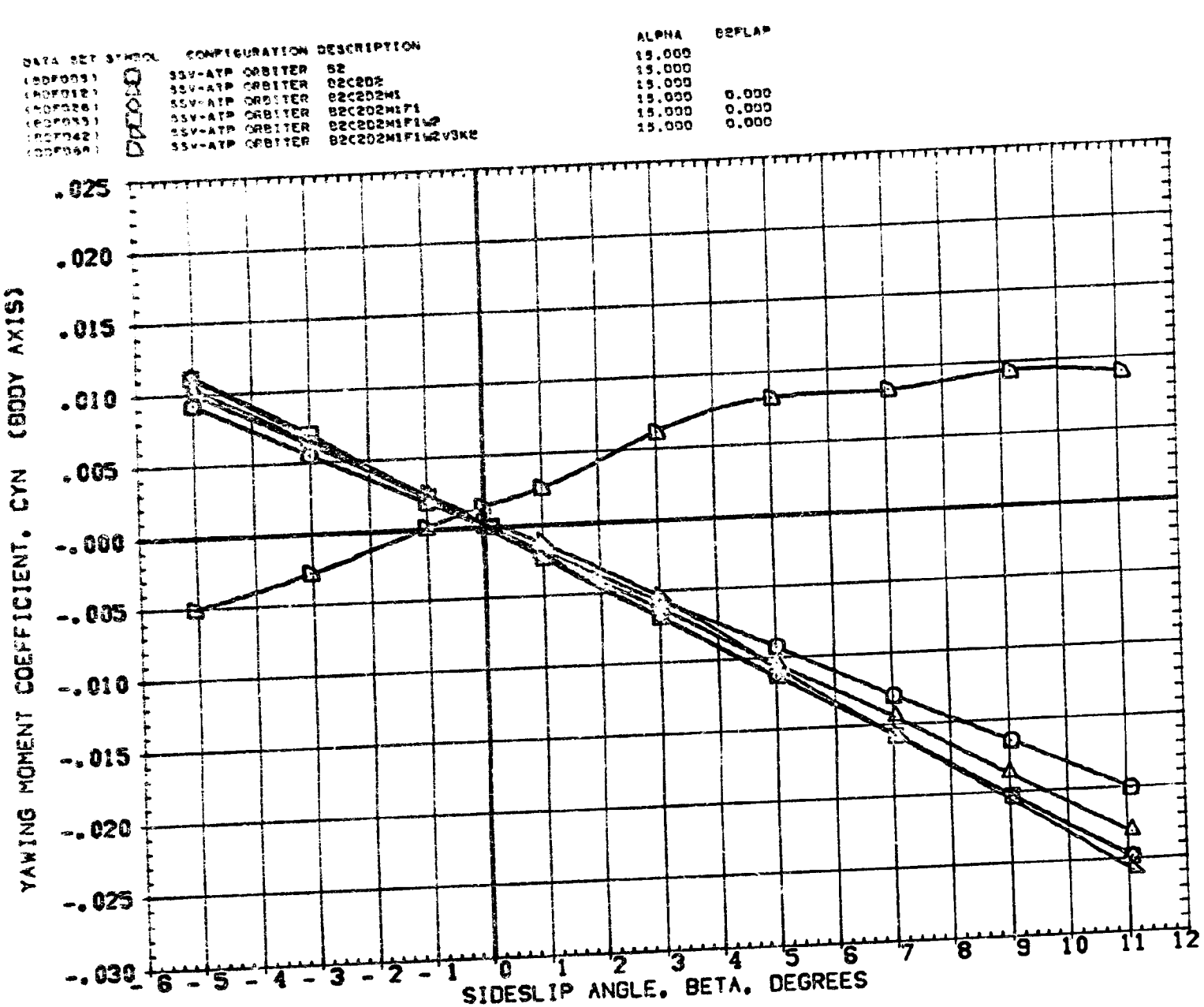


FIG. 8 COMPONENT BUILDUP, ALPHA= 15 DEG.

(A)MACH = 0.26

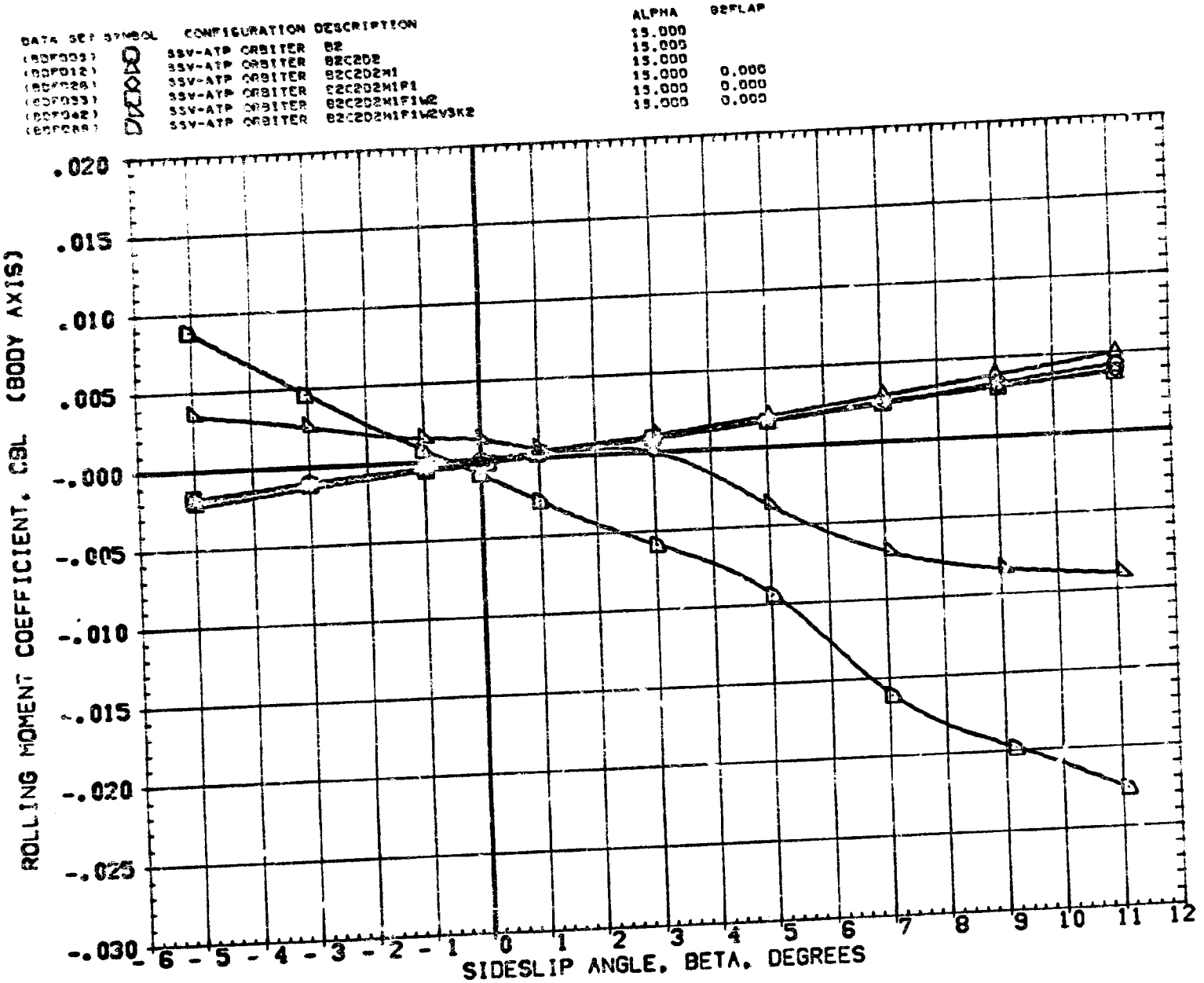


FIG. 8 COMPONENT BUILDUP, ALPHA= 15 DEG.

(A)MACH = 0.26

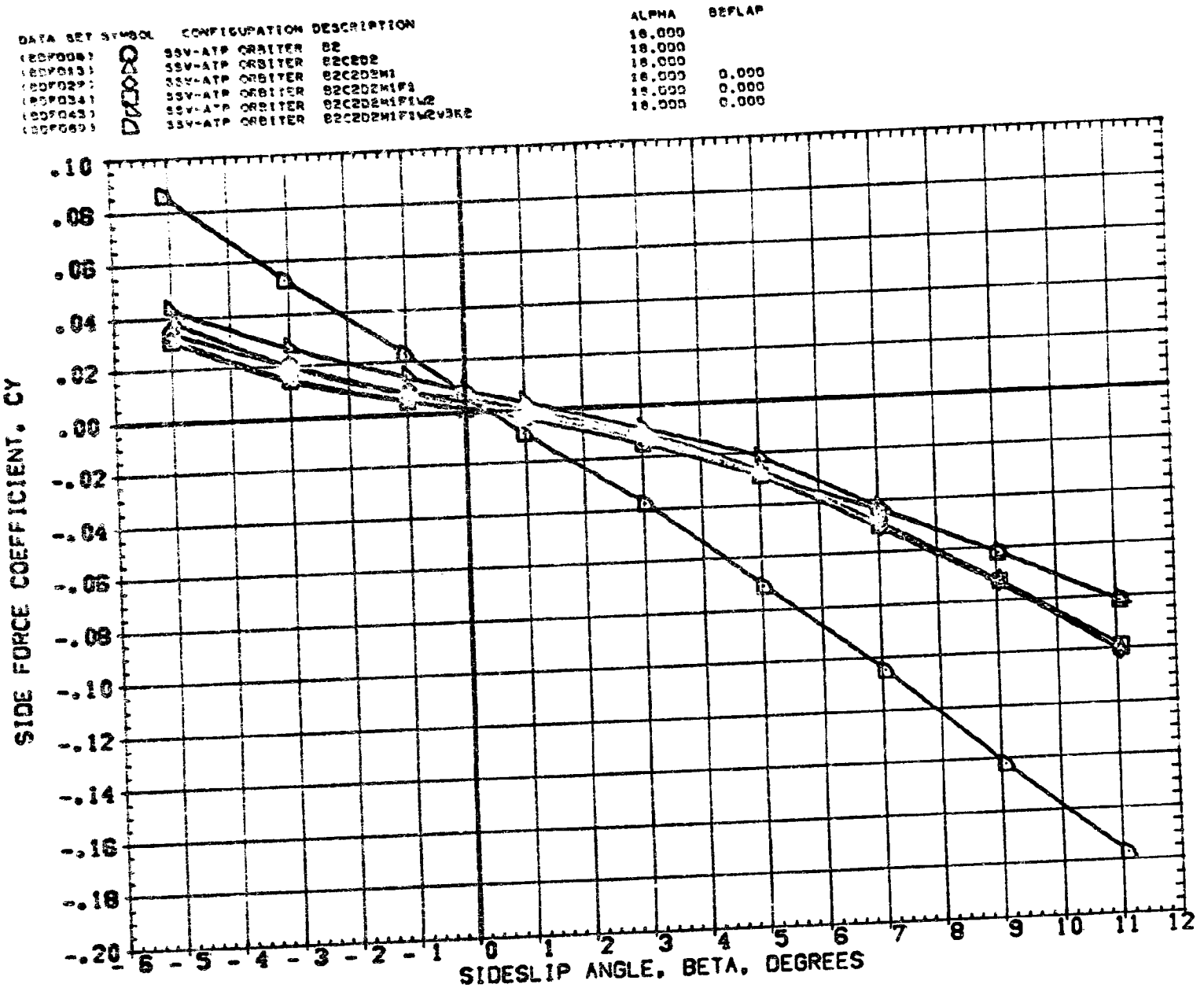


FIG. 9 COMPONENT BUILDUP, ALPHA= 18 DEG.

(A)MACH = 0.26

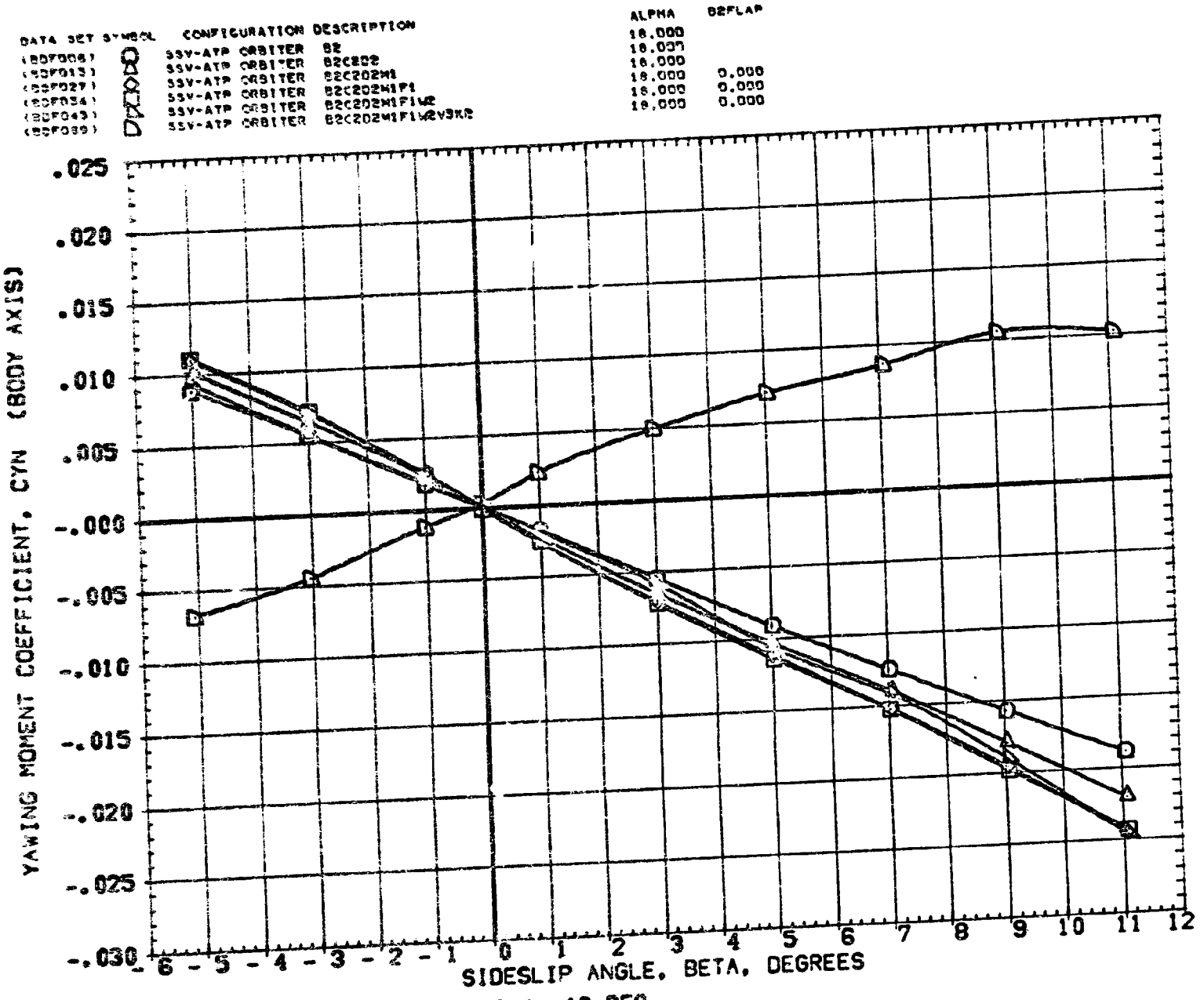


FIG. 9 COMPONENT BUILDUP, ALPHA= 18 DEG.

(A)MACH = 0.26

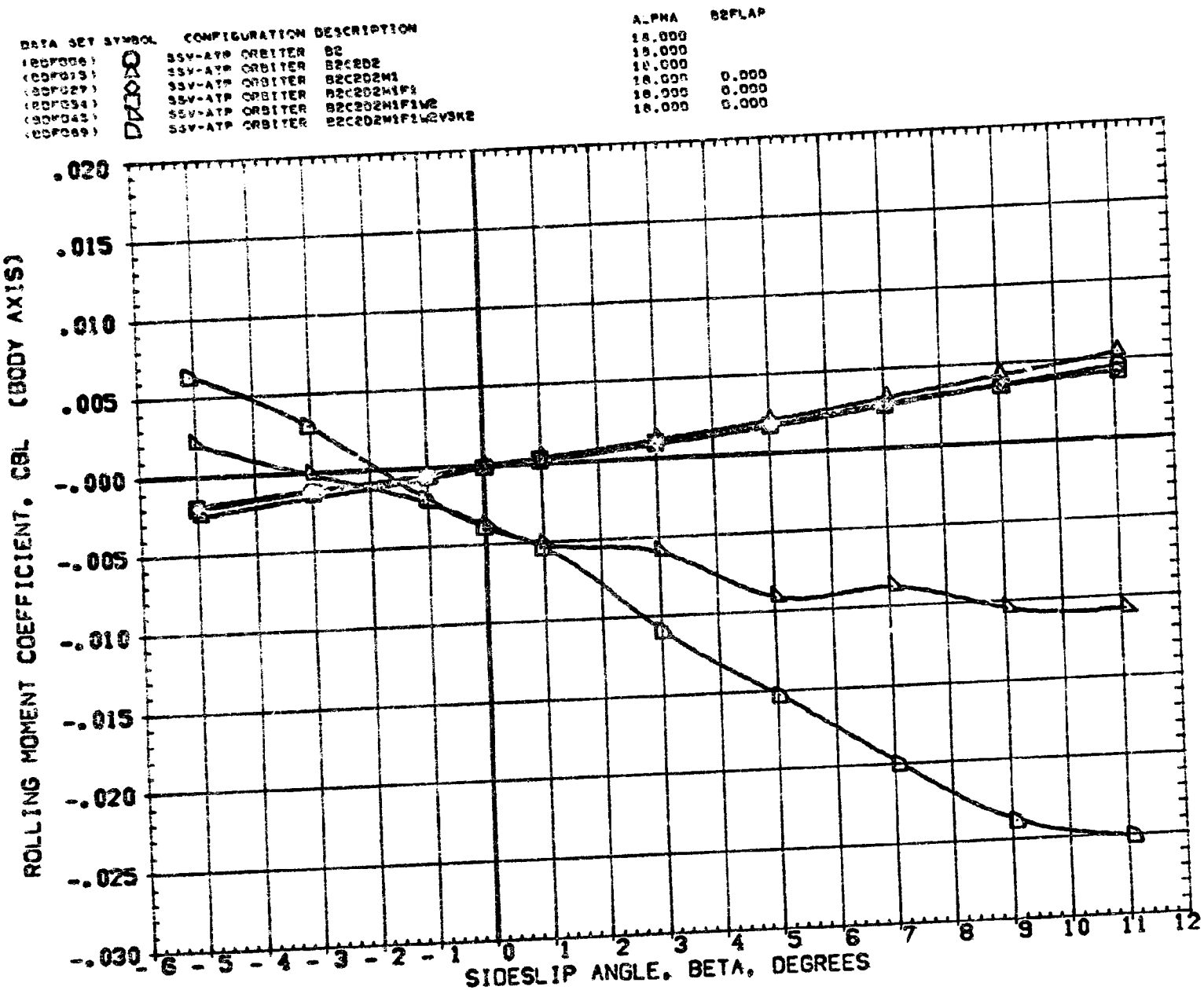


FIG. 9 COMPONENT BUILDUP, ALPHA= 18 DEG.

(A)MACH = 0.26

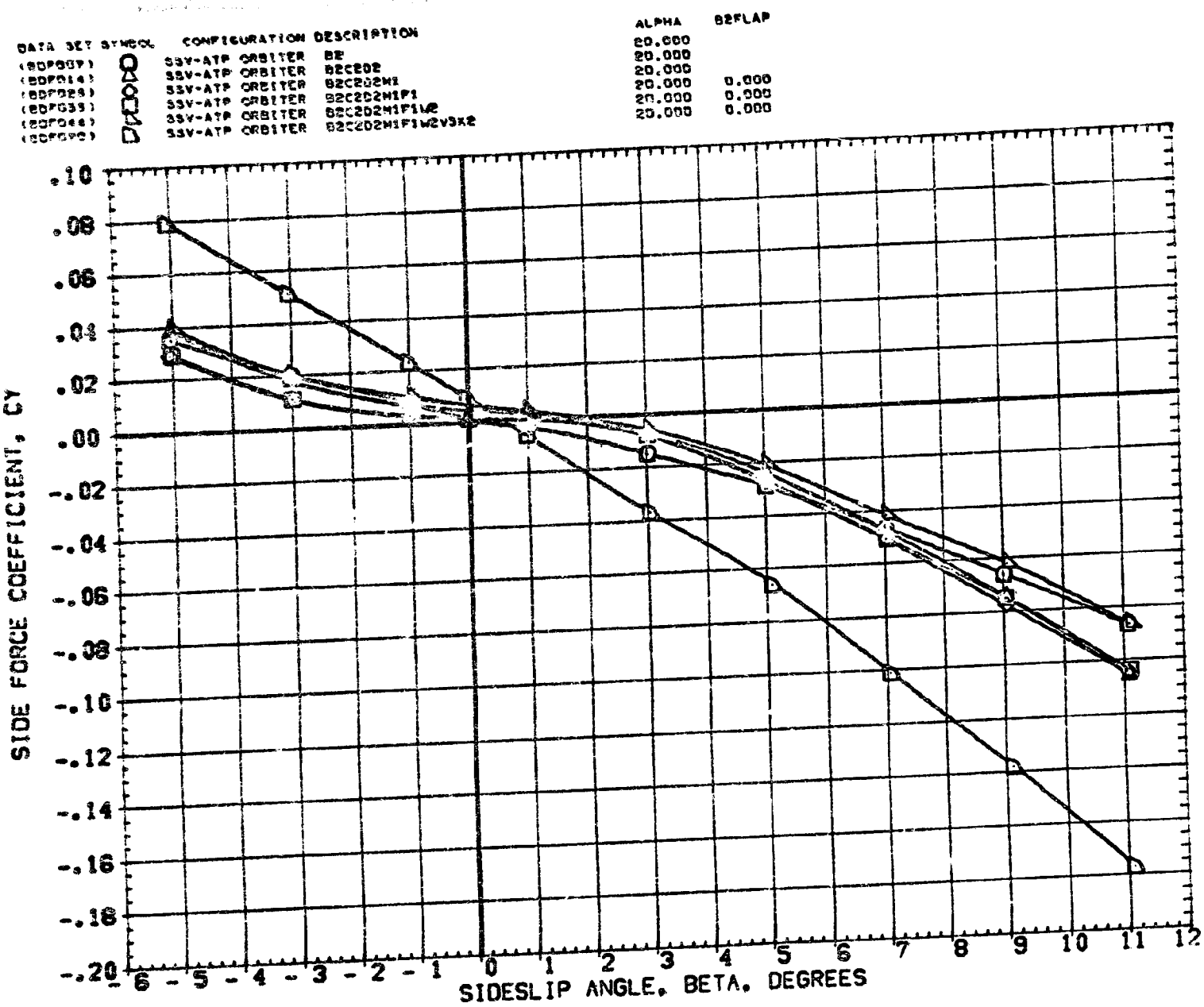


FIG. 10 COMPONENT BUILDUP, ALPHA= 20 DEG.

(A)MACH = 0.26

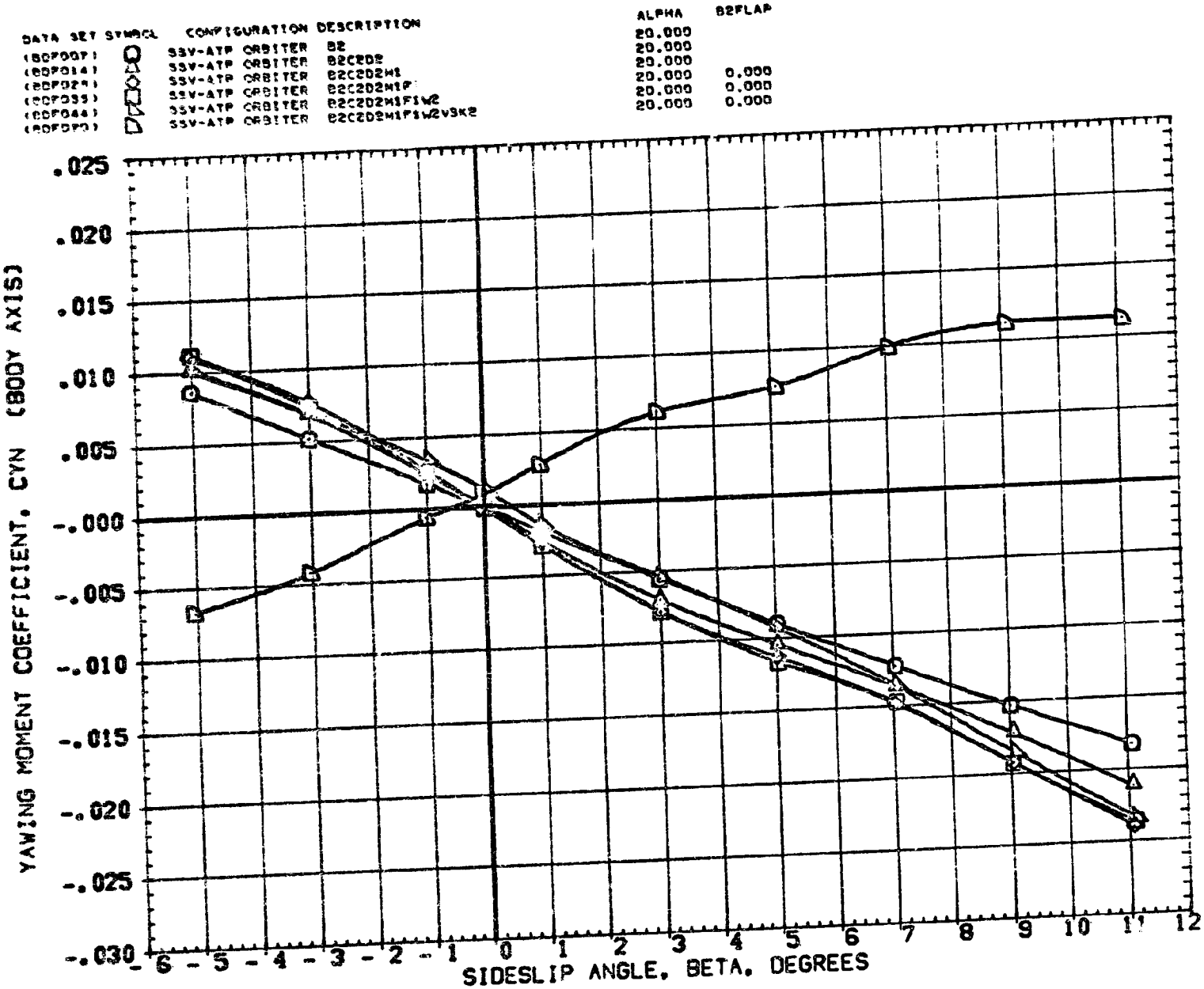


FIG. 10 COMPONENT BUILDUP, ALPHA= 20 DEG.

(A)MACH = 0.26

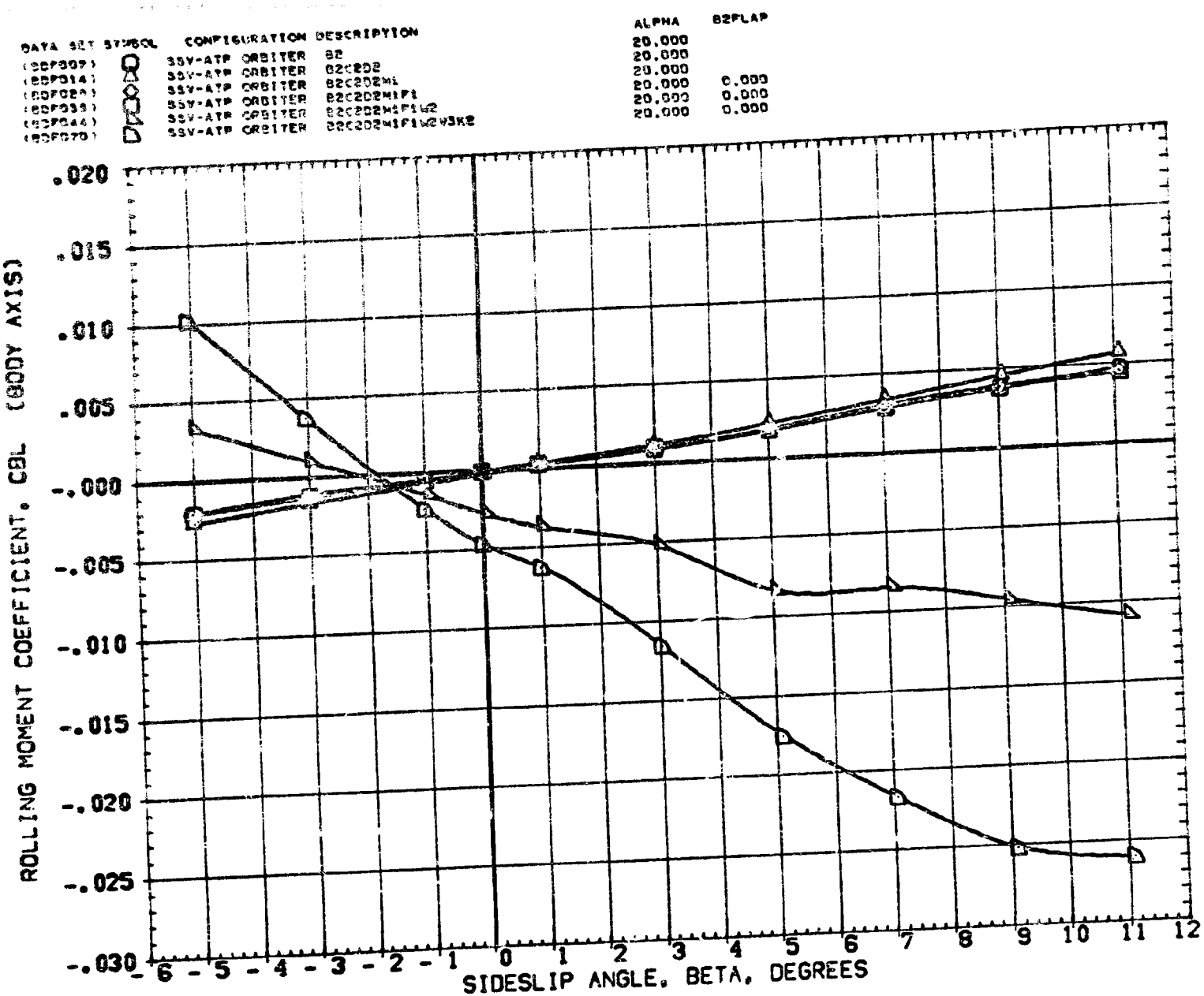


FIG. 10 COMPONENT BUILDUP, ALPHA= 20 DEG.

(A)MACH = 0.26

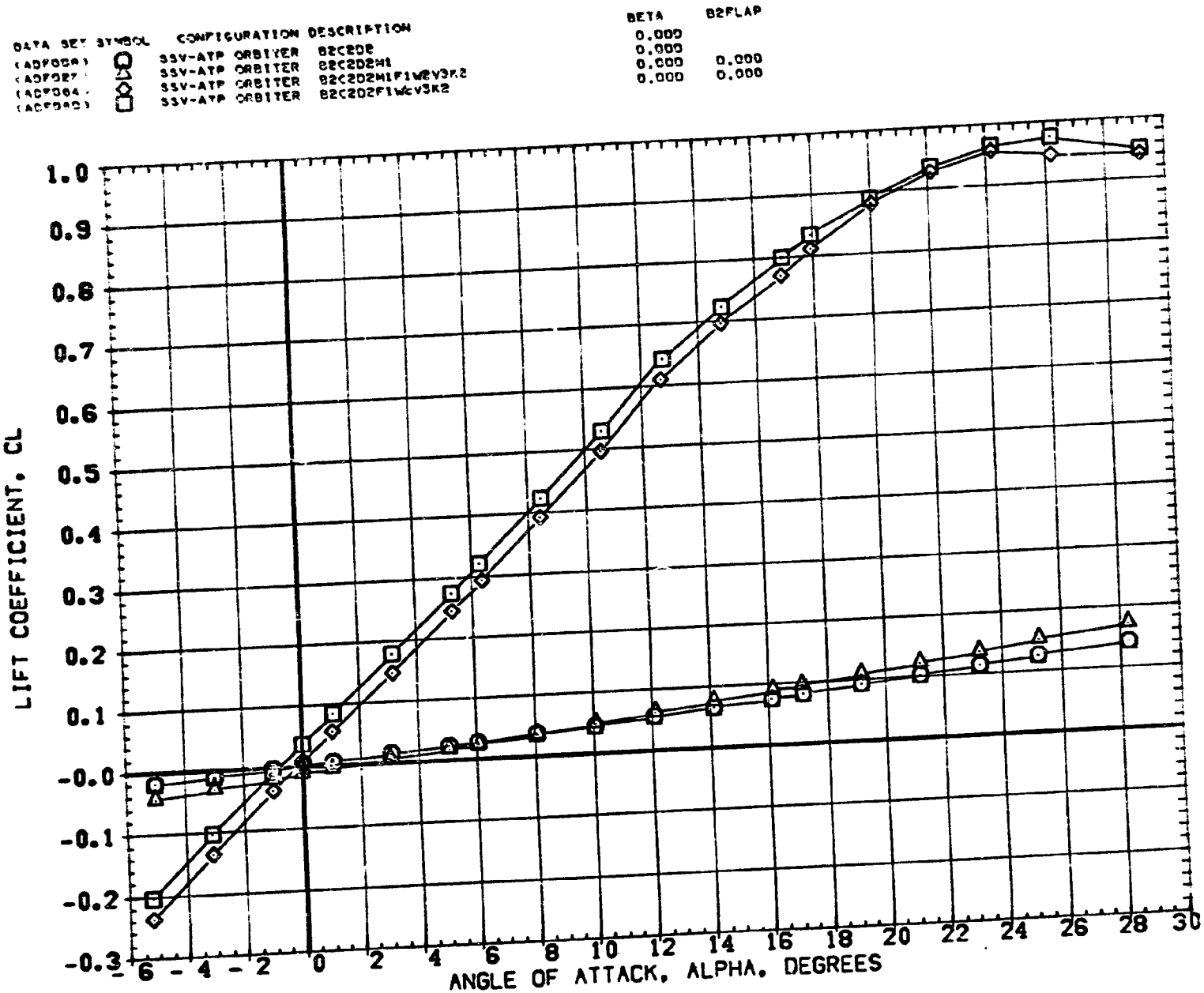


FIG. 11 EFFECT OF OMS PODS, BETA= 0 DEG.

(A)MACH = 0.26

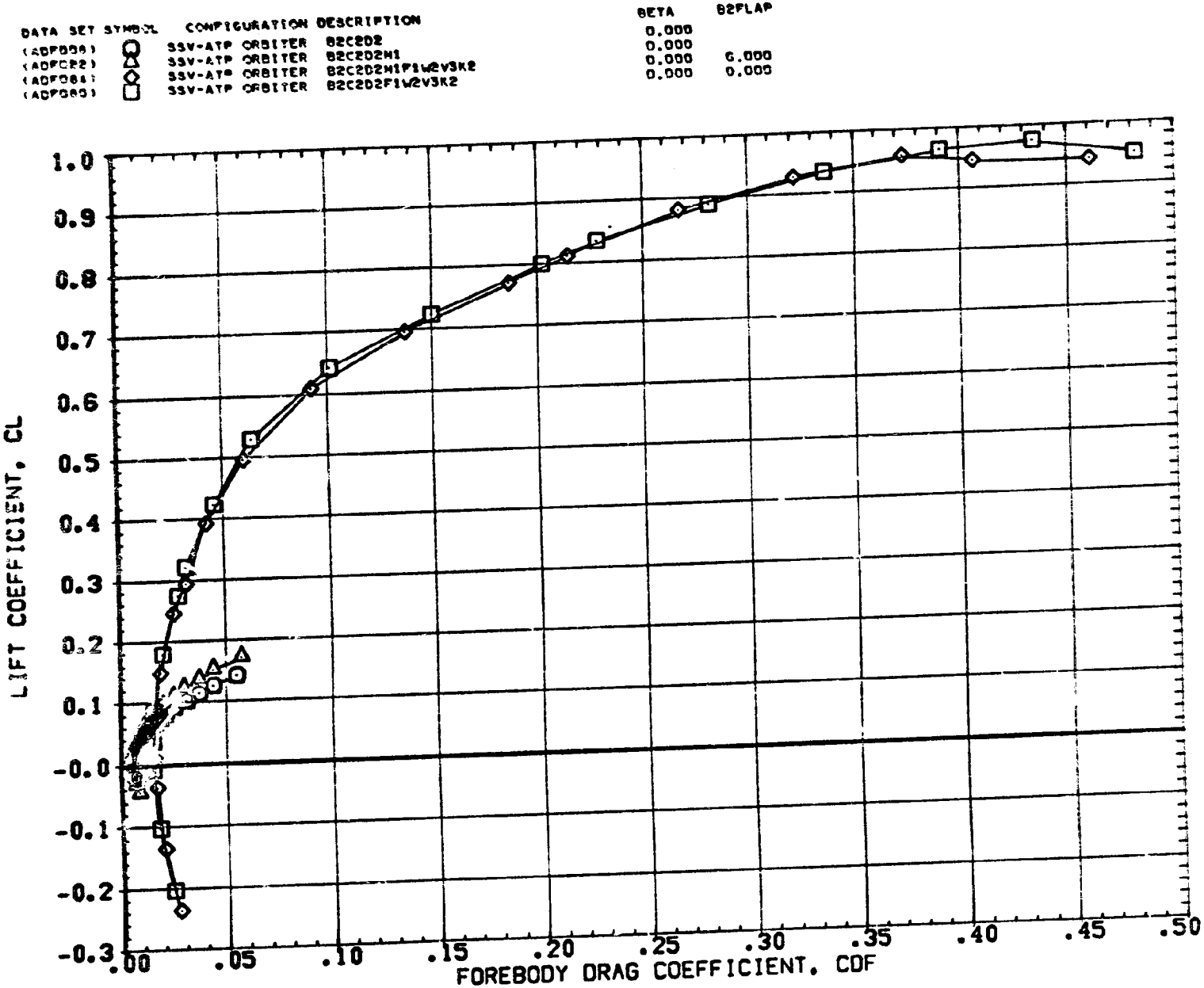


FIG. 11 EFFECT OF OMS PODS, BETA= 0 DEG.

(A)MACH = 0.26

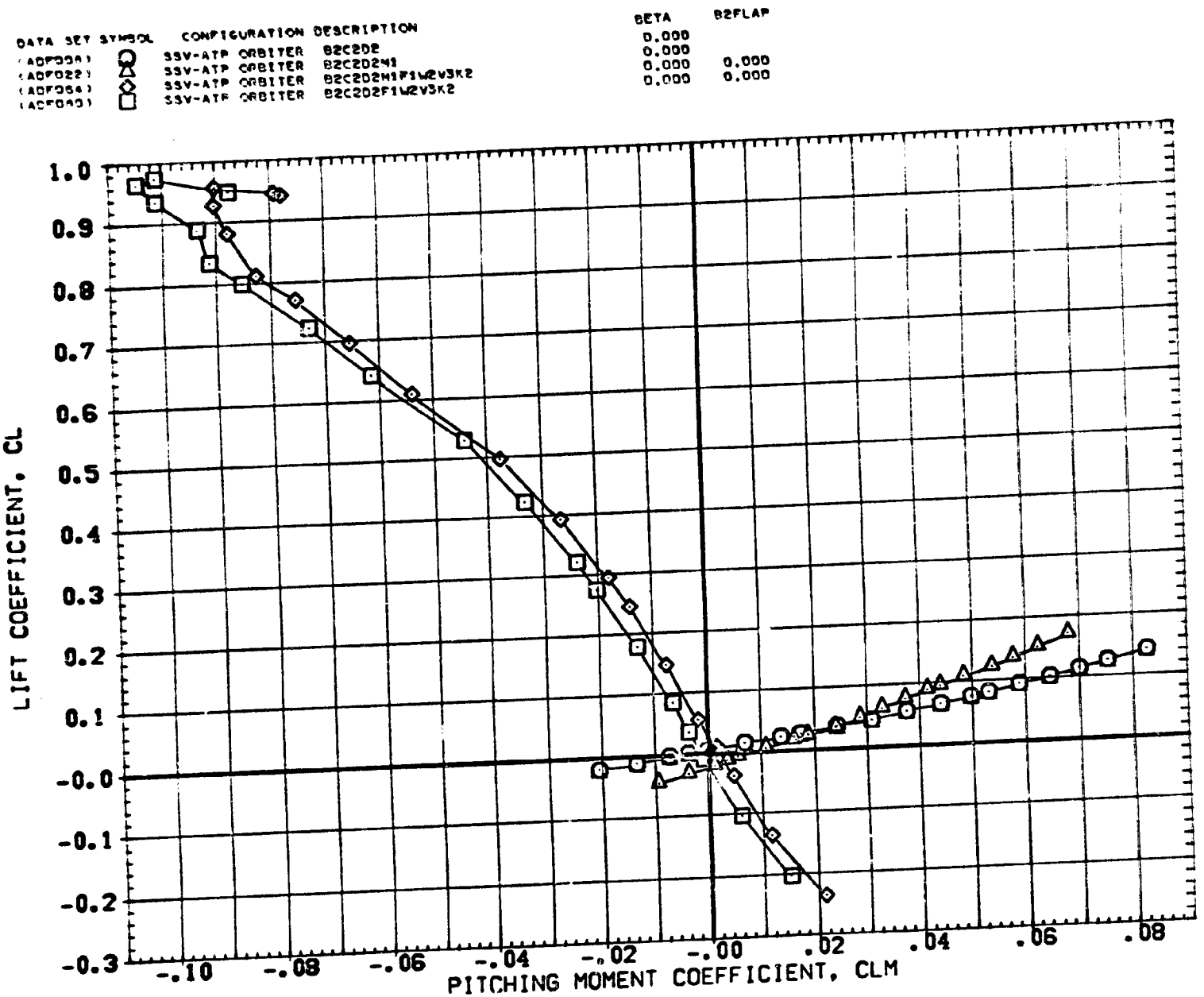


FIG. 11 EFFECT OF OMS PODS, BETA= 0 DEG.

(A)MACH = 0.26

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	BETA	B2FLAP
(ACF008)		SSV-ATP ORBITER B2C2D2	0.000	
(ACF022)		SSV-ATP ORBITER B2C2D2M1	0.000	
(ACF064)		SSV-ATP ORBITER B2C2D2M1F1W2V3K2	0.000	0.000
(ACF0*0)		SSV-ATP ORBITER B2C2D2F1W2V3K2	0.000	0.000

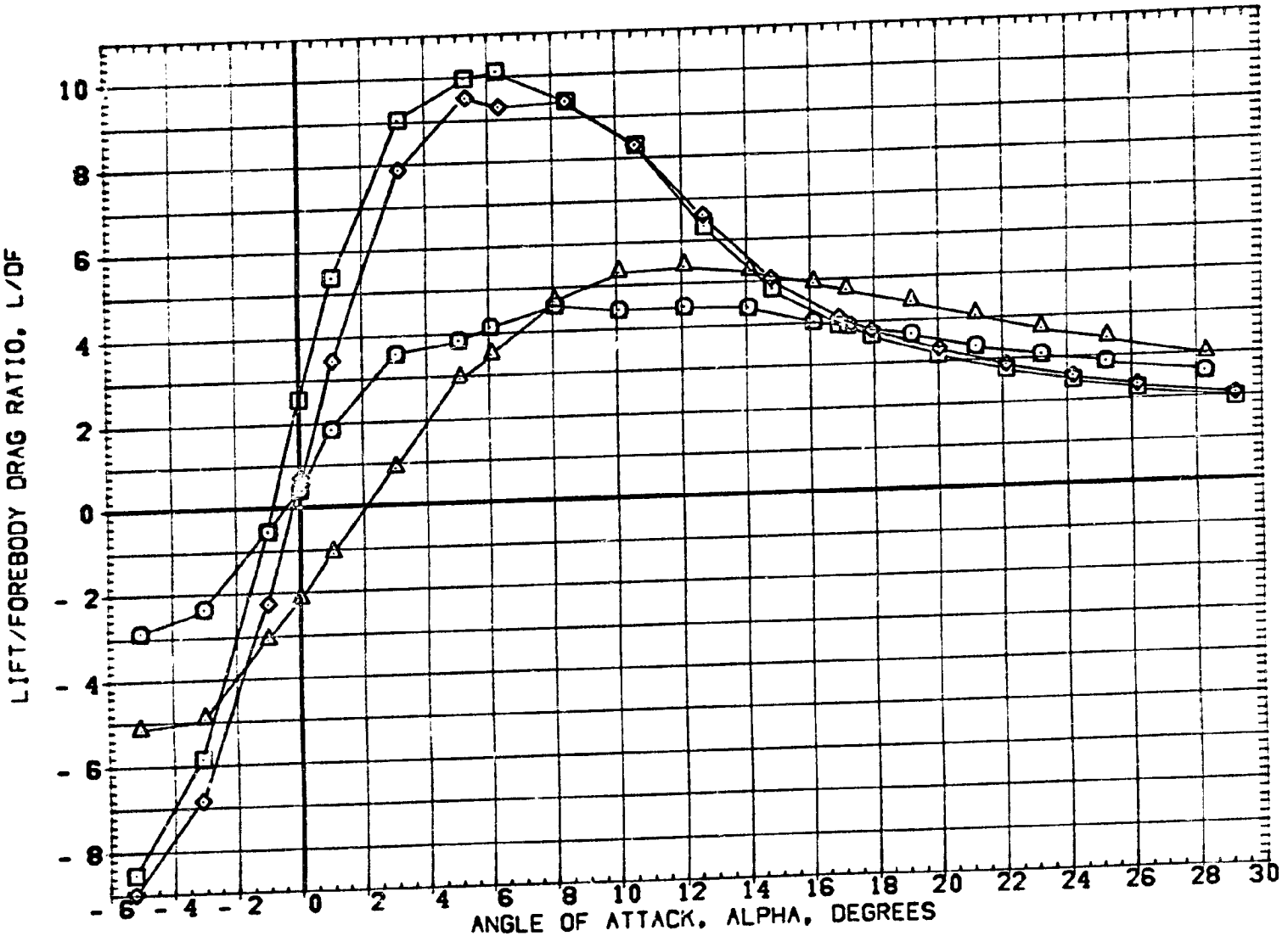


FIG. 11 EFFECT OF OMS PODS, BETA= 0 DEG.

(A)MACH = 0.26

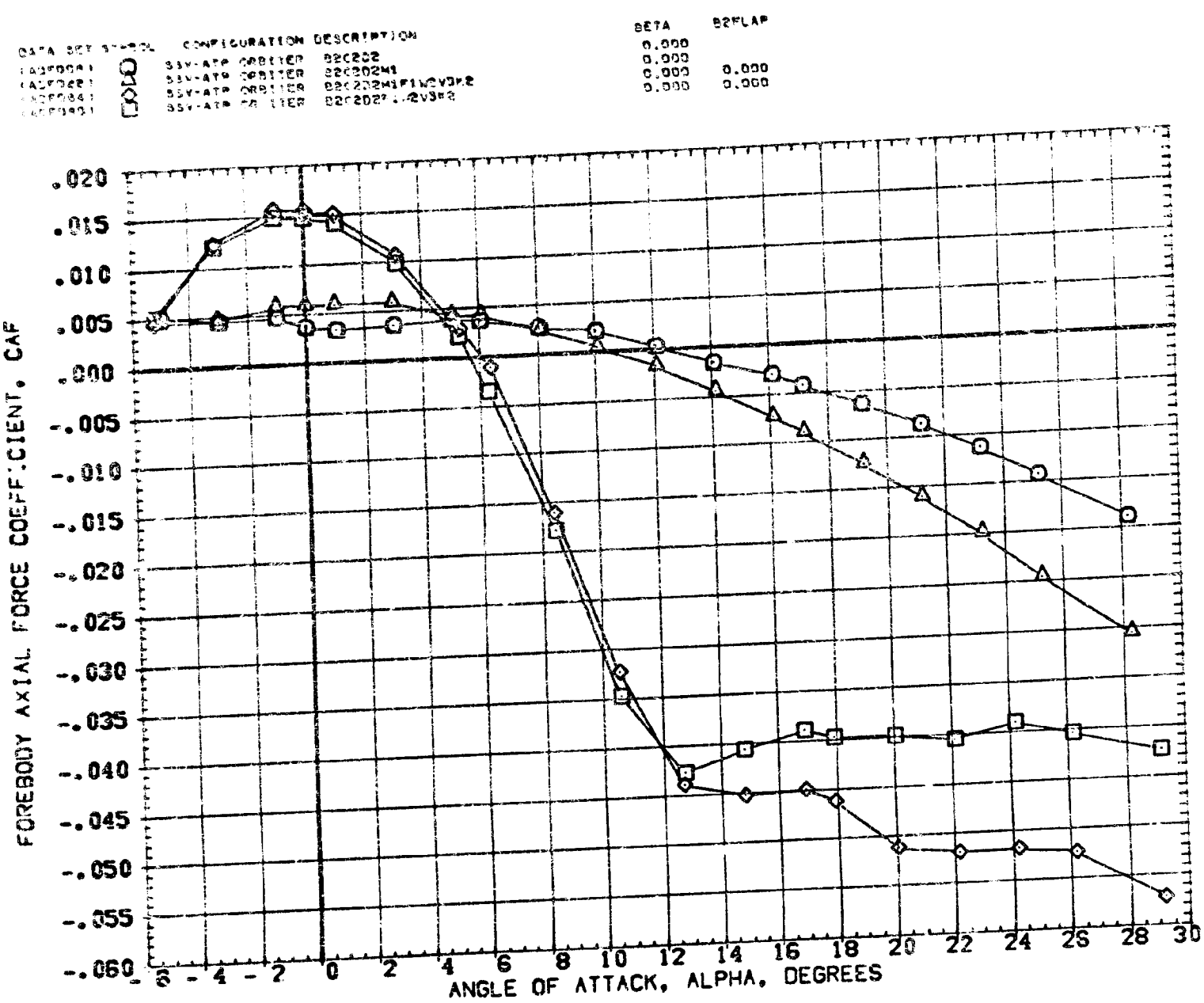


FIG. 11 EFFECT OF OMS PODS, BETA= 0 DEG.

(A)MACH = 0.26

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DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	BEFLAP
(A)DP0201	3SV-ATP ORBITER B2C2D2	0.000	
(A)DP0221	3SV-ATP ORBITER B2C2D2M1	0.000	
(A)DP0241	3SV-ATP ORBITER B2C2D2M1F1W2V3R2	0.000	0.000
(A)DP0261	3SV-ATP ORBITER B2C2D2F1W2V3R2	0.000	0.000

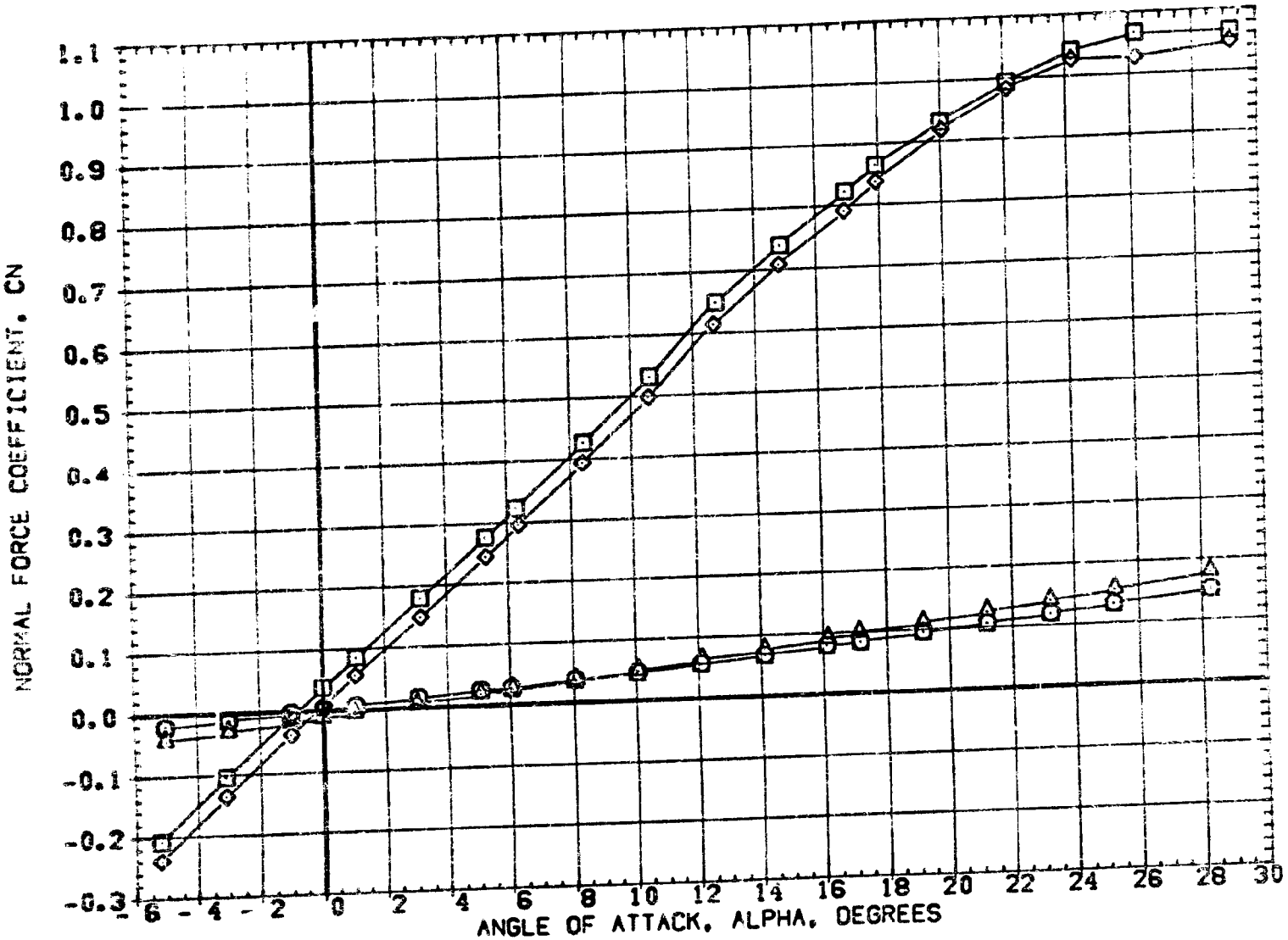


FIG. 11 EFFECT OF OMS PODS, BETA= 0 DEG.

(A)MACH = 0.26

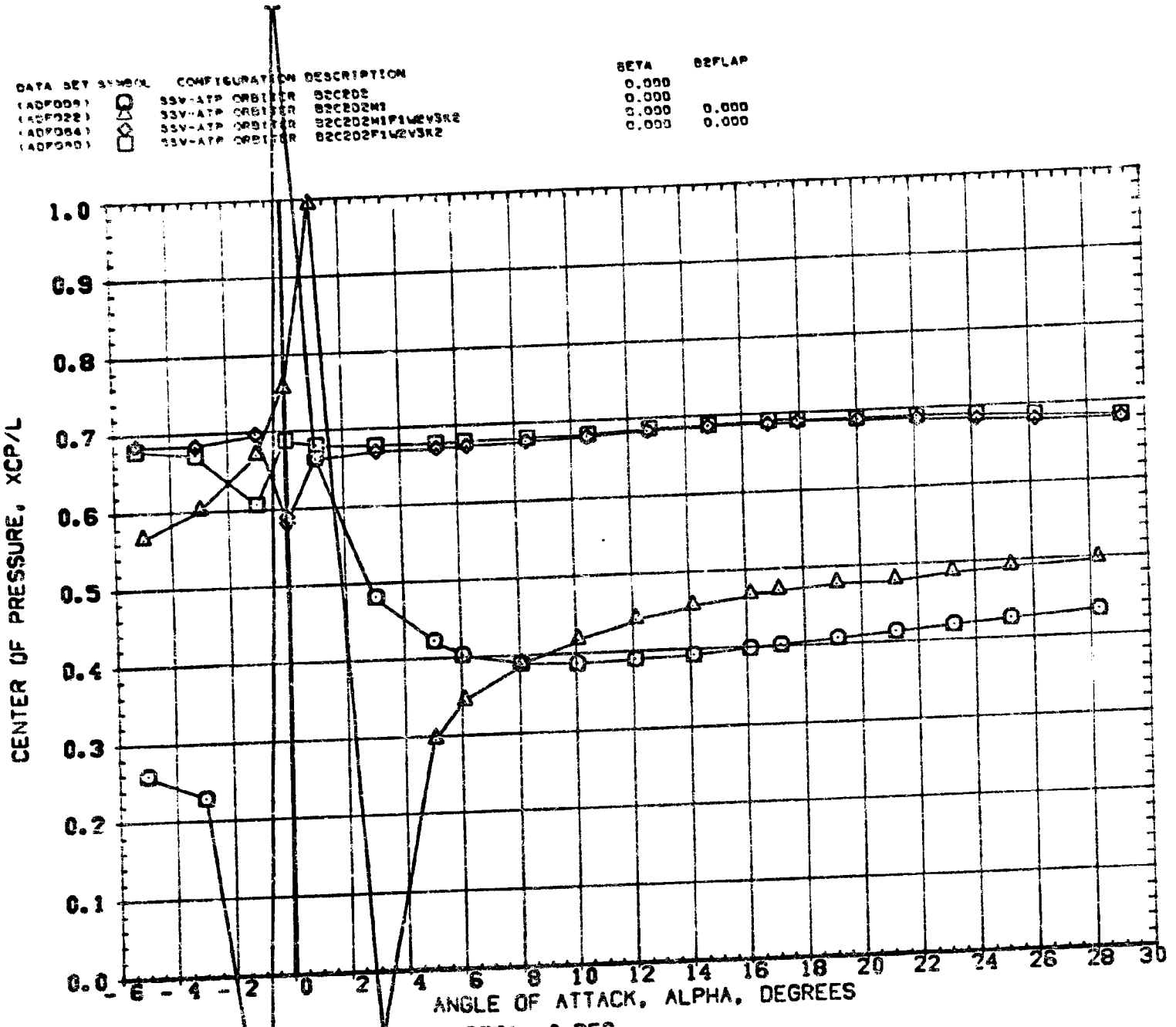


FIG. 11 EFFECT OF OMS PODS, BETA= 0 DEG.

(A)MACH = 0.26

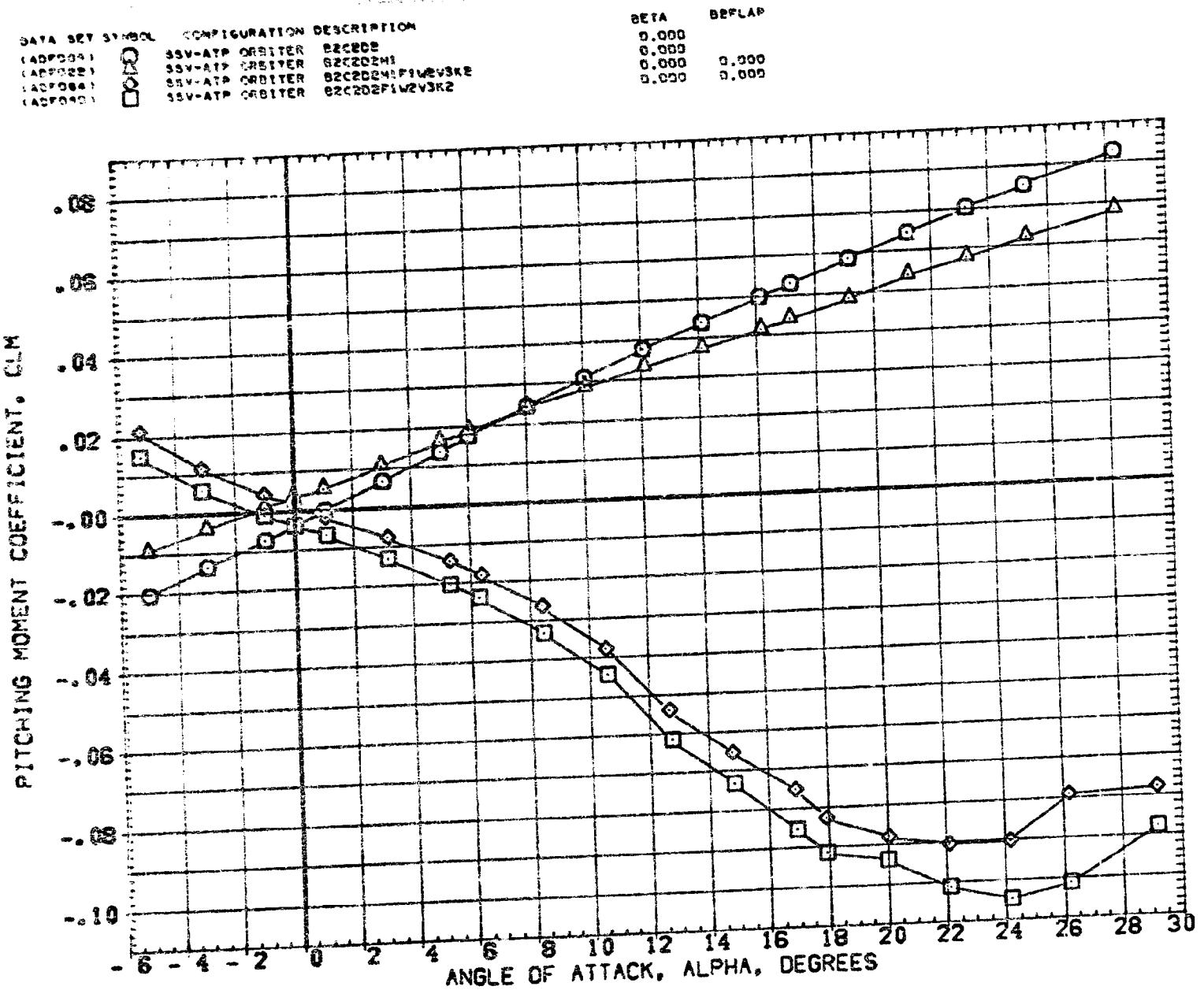


FIG. 11 EFFECT OF OMS PODS, BETA= 0 DEG.

(A)MACH = 0.26

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	ALPHA	B2FLAP
(B0P000)	○	SSV-ATP ORBITER B2C2D2	0.000	
(B0P033)	◇	SSV-ATP ORBITER B2C2D2M1	0.000	
(B0P063)	△	SSV-ATP ORBITER B2C2D2M1F1W2V3K2	0.000	0.000
(B0P0M1)	□	SSV-ATP ORBITER B2C2D2F1W2V3K2	0.000	0.000

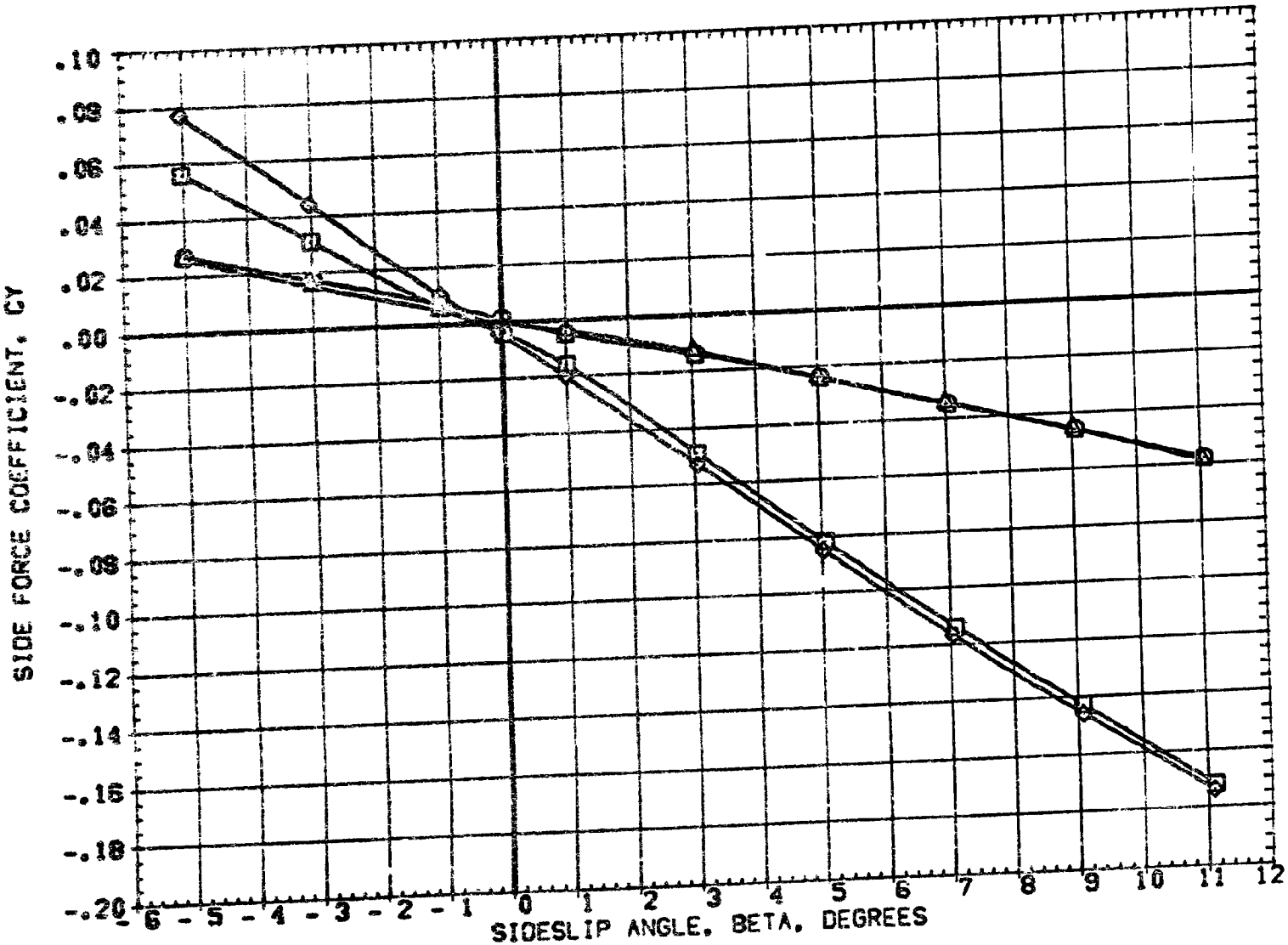


FIG. 12 EFFECT OF OMS PODS, ALPHA= 0 DEG.

(A)MACH = 0.26

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ALPHA	B2FLAP
(B2F029)	SSV-ATP ORBITER B2C2D2	0.000	
(B2F025)	SSV-ATP ORBITER B2C2D2W1	0.000	
(B2F085)	SSV-ATP ORBITER B2C2D2W1F1W2V3K2	0.000	0.000
(B2F081)	SSV-ATP ORBITER B2C2D2F1W2V3K2	0.000	0.000

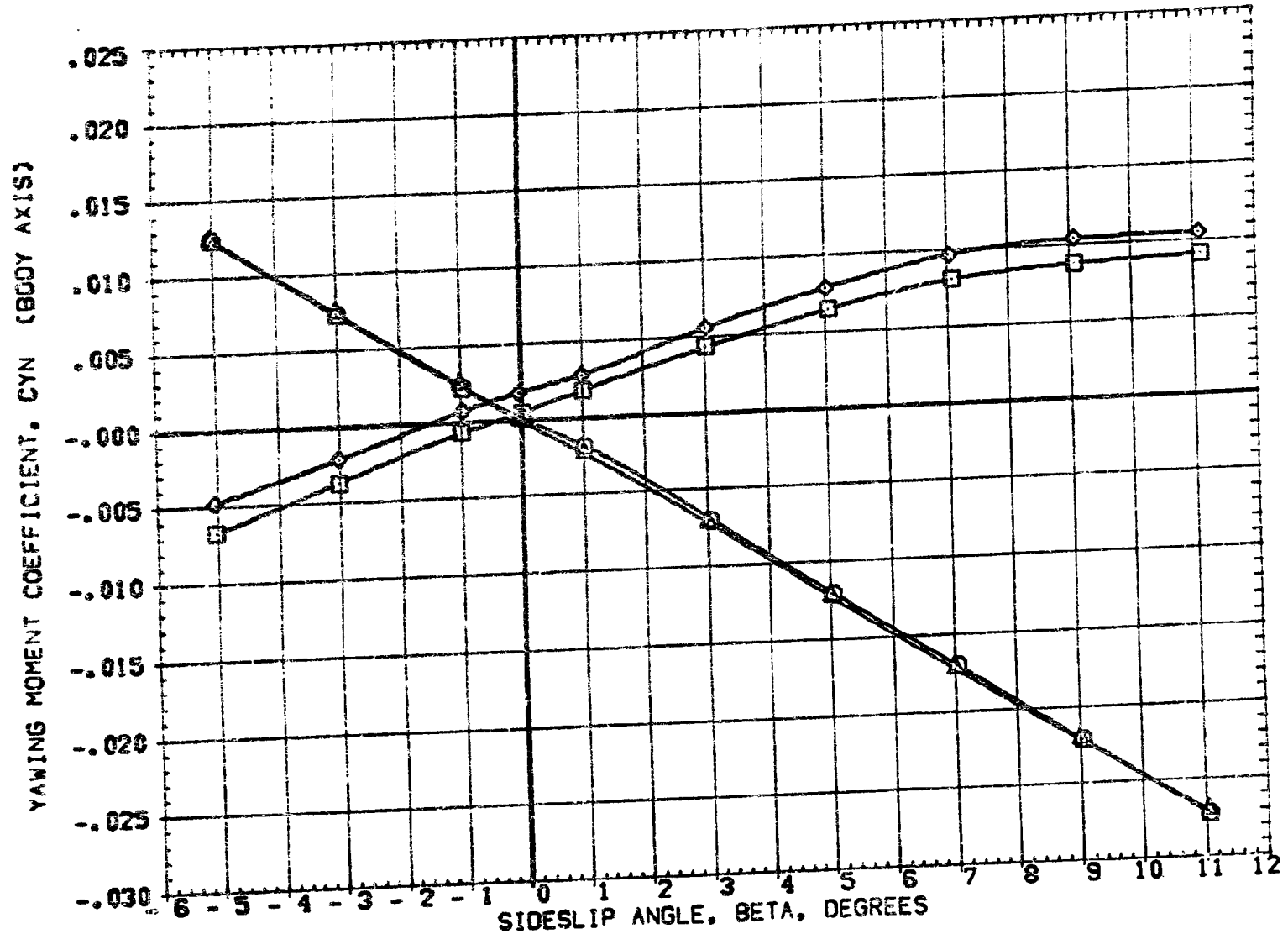


FIG. 12 EFFECT OF OMS PODS, ALPHA= 0 DEG.

PAGE 36

(A)MACH = 0.26

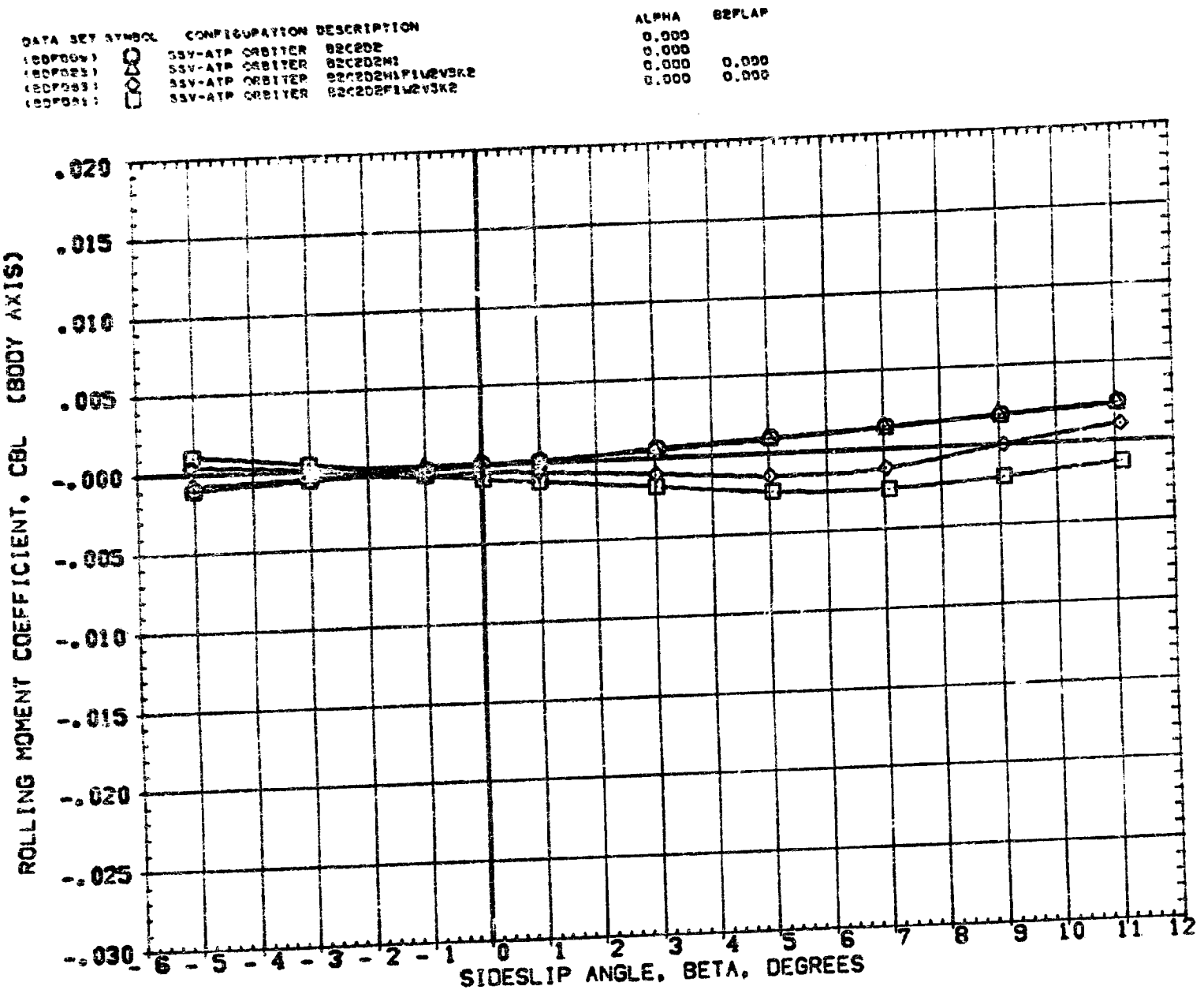


FIG. 12 EFFECT OF OMS PODS, ALPHA= 0 DEG.

(A)MACH = 0.26

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	ALPHA	SEFLAP
(B0F010)	◇	55V-ATP ORBITER B2C2D2	5.000	
(B0F024)	□	55V-ATP ORBITER B2C2D2M1	5.000	
(B0F068)	◇	55V-ATP ORBITER B2C2D2M1F1W2V3K2	5.000	0.000
(B0F042)	□	55V-ATP ORBITER B2C2D2F1W2V3K2	5.000	0.000

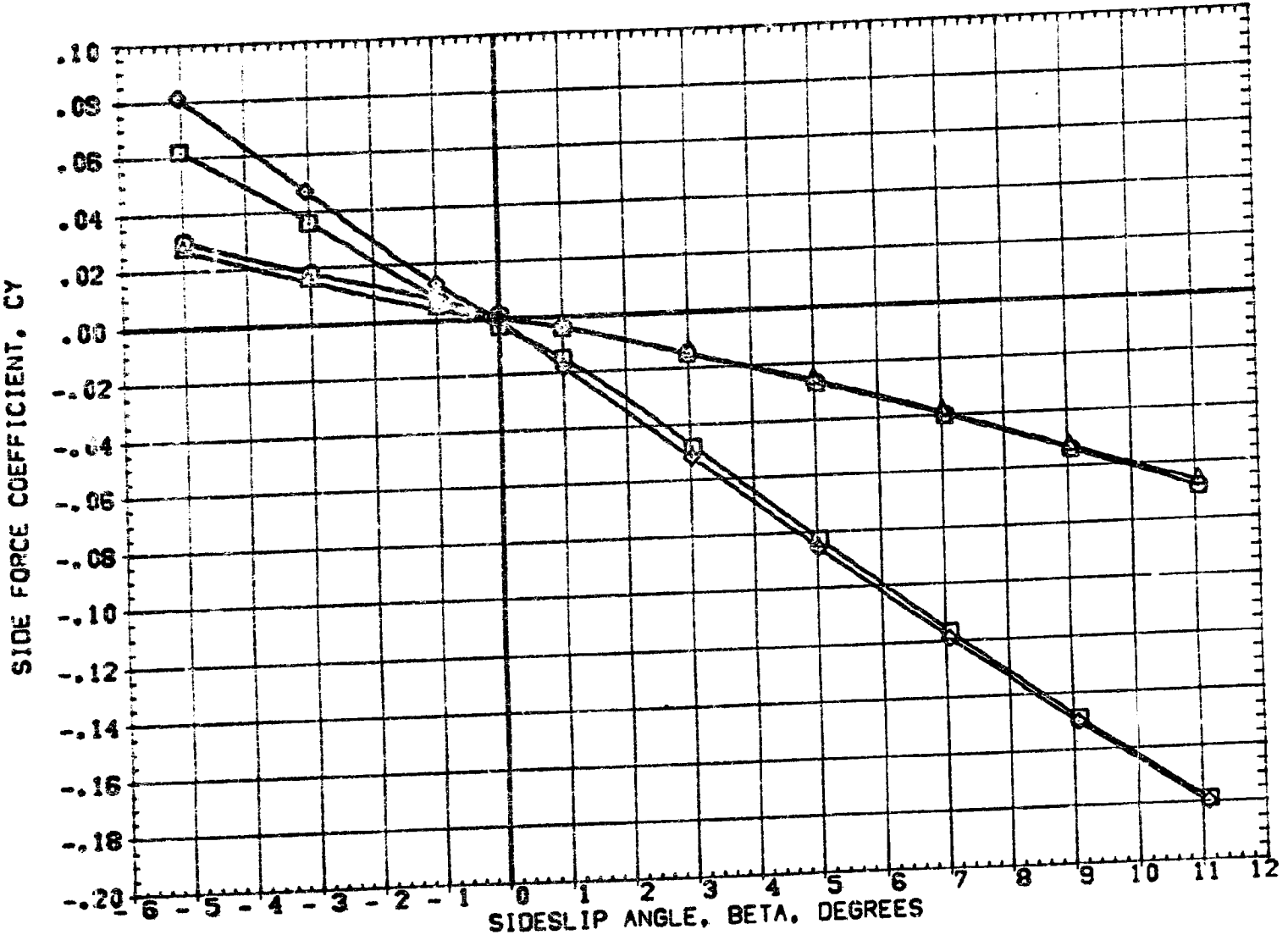


FIG. 13 EFFECT OF OMS PODS, ALPHA= 5 DEG.

(A)MACH = 0.26

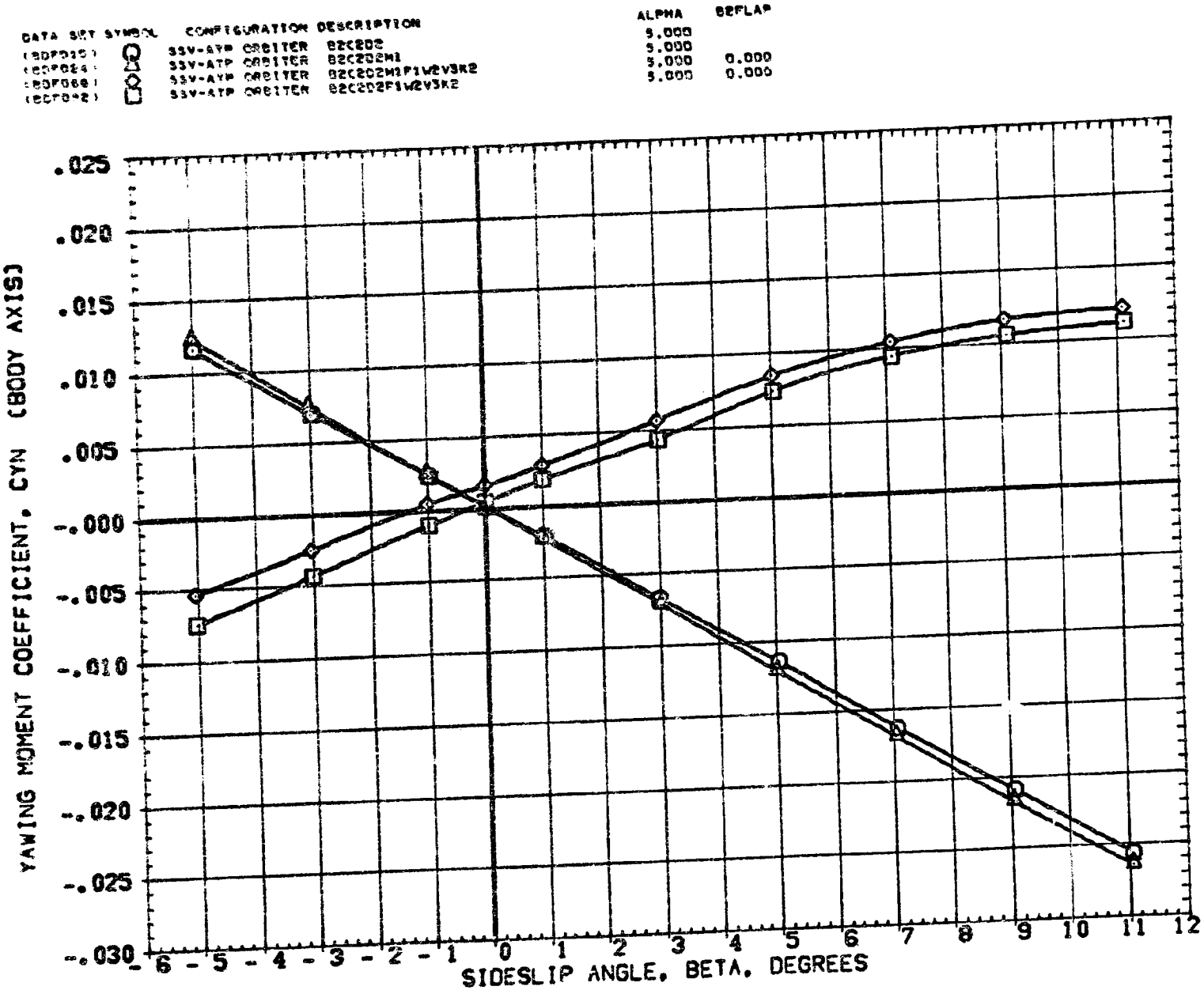


FIG. 13 EFFECT OF OMS PODS, ALPHA= 5 DEG.

(A)MACH = 0.26

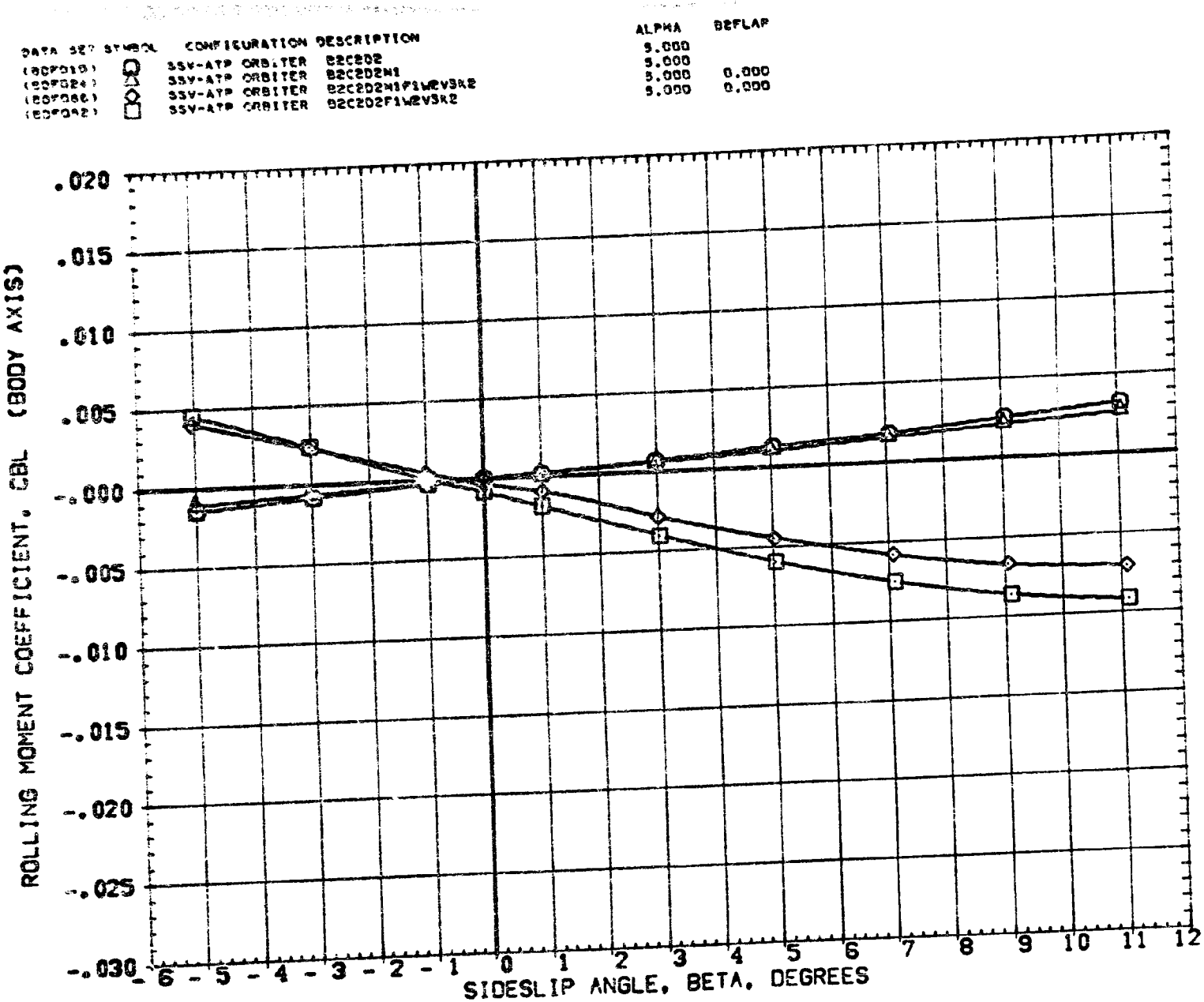


FIG. 13 EFFECT OF OMS PODS, ALPHA= 5 DEG.

(A)MACH = 0.26

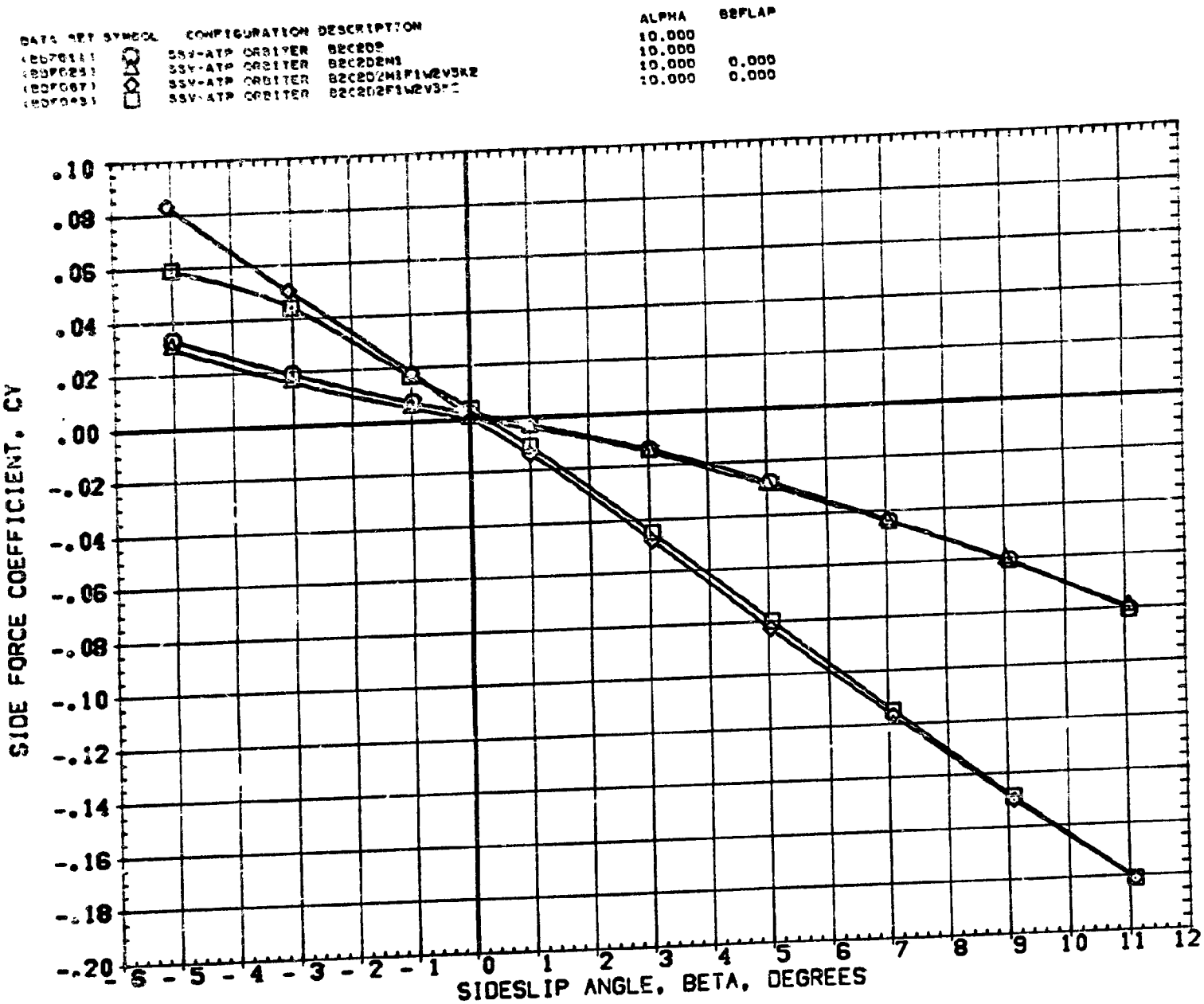


FIG. 14 EFFECT OF OMS PODS, ALPHA= 10 DEG.

(A)MACH = 0.26

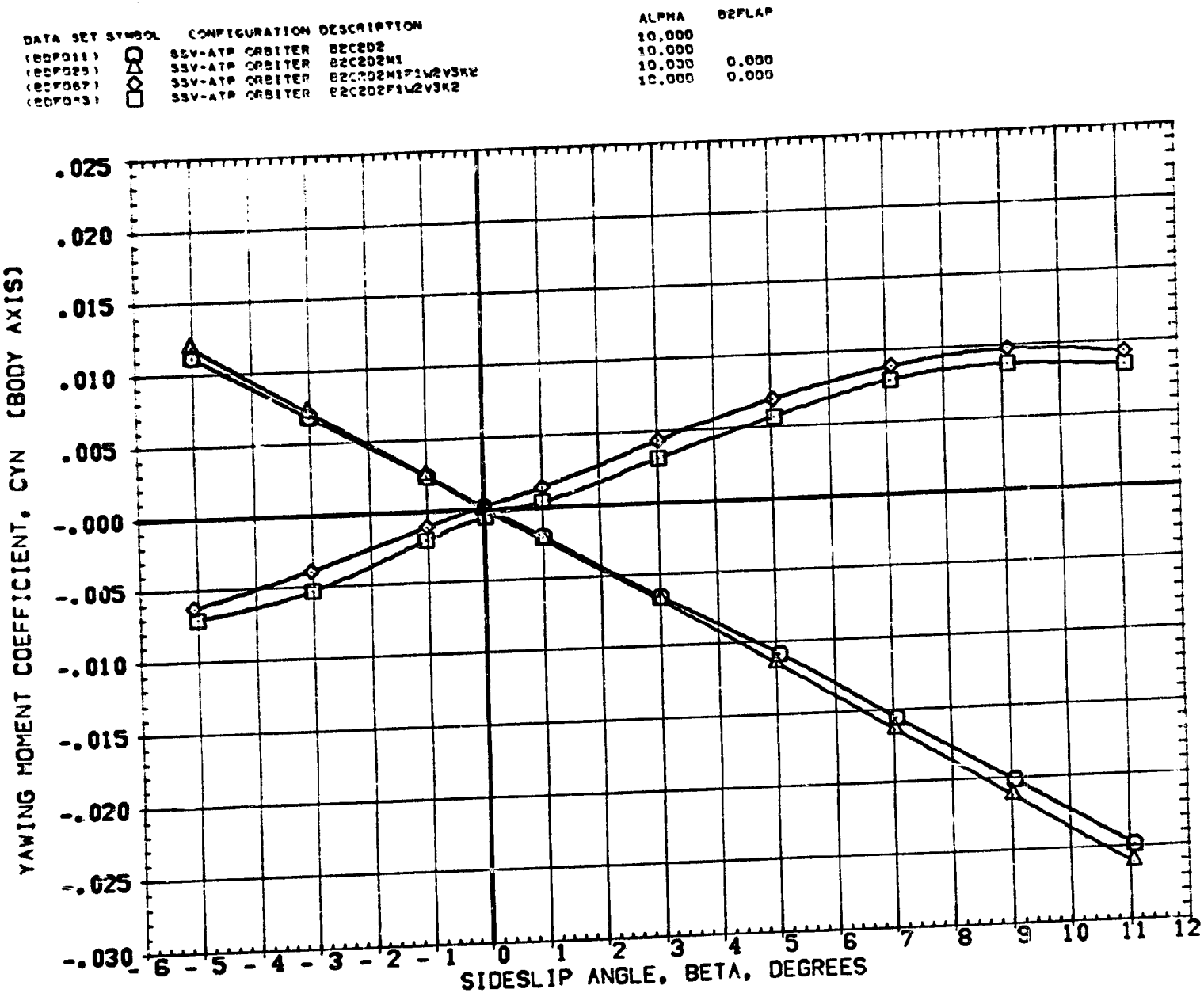


FIG. 14 EFFECT OF OMS PODS, ALPHA= 10 DEG.

(A)MACH = 0.26

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	ALPHA	B2FLAP
(B0F011)	□	SSV-ATP ORBITER B2C2D2	10.000	
(B0F025)	△	SSV-ATP ORBITER B2C2D2M1	10.000	
(B0F067)	◇	SSV-ATP ORBITER B2C2D2M1F1W2V3K2	10.000	0.000
(B0F043)	□	SSV-ATP ORBITER B2C2D2F1W2V3K2	10.000	0.000

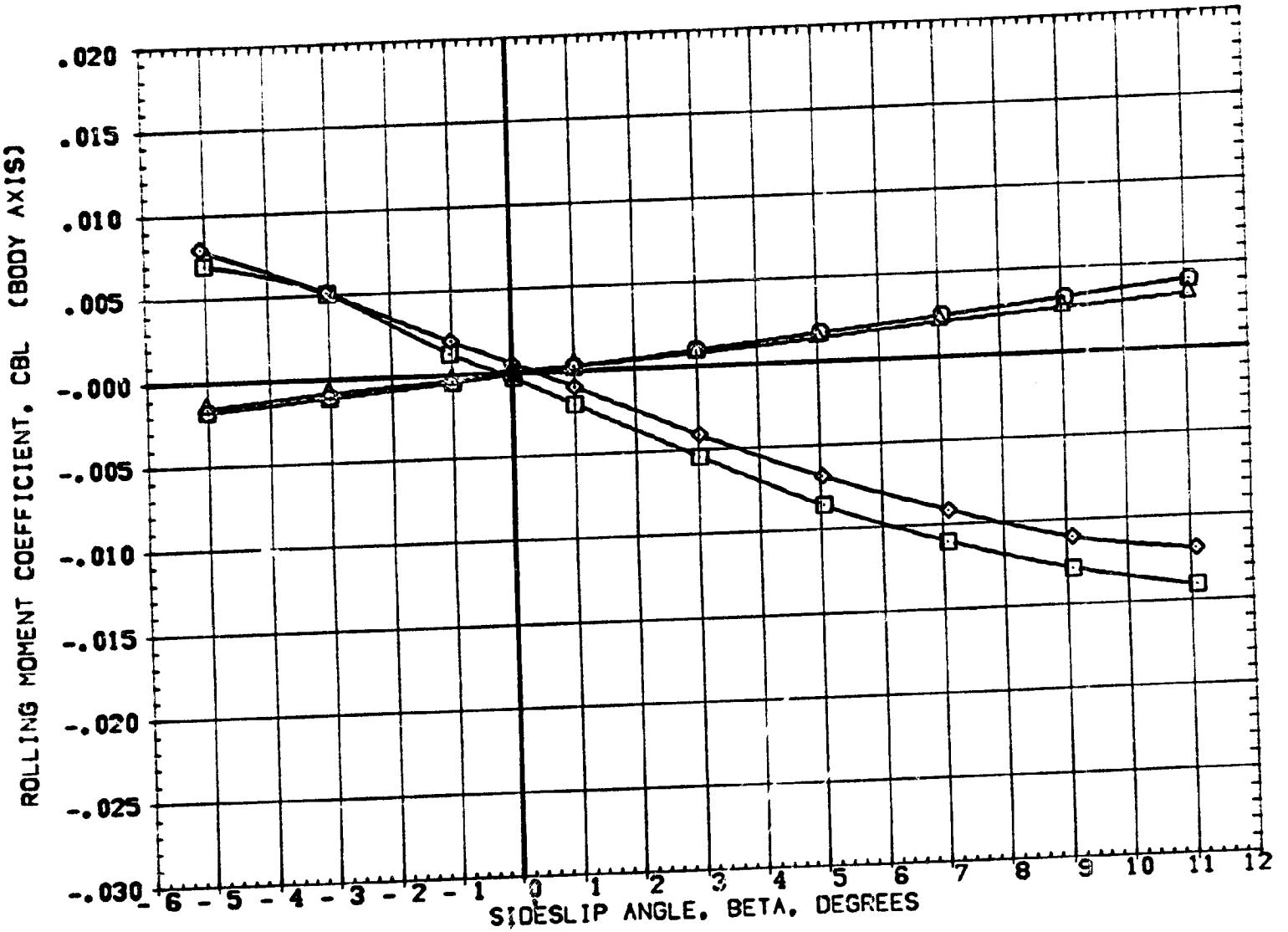


FIG. 14 EFFECT OF OMS PODS, ALPHA= 10 DEG.

(A)MACH = 0.26

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION		ALPHA	B2FLAP
(BDF012)		SSV-ATP ORBITER	B2C2D2	15.000	
(BDF028)		SSV-ATP ORBITER	B2C2D2H1	15.000	
(BDF064)		SSV-ATP ORBITER	B2C2D2H1F1W2V3K2	15.000	0.000
(BDF084)		SSV-ATP ORBITER	B2C2D2F1W2V3K2	15.000	0.000

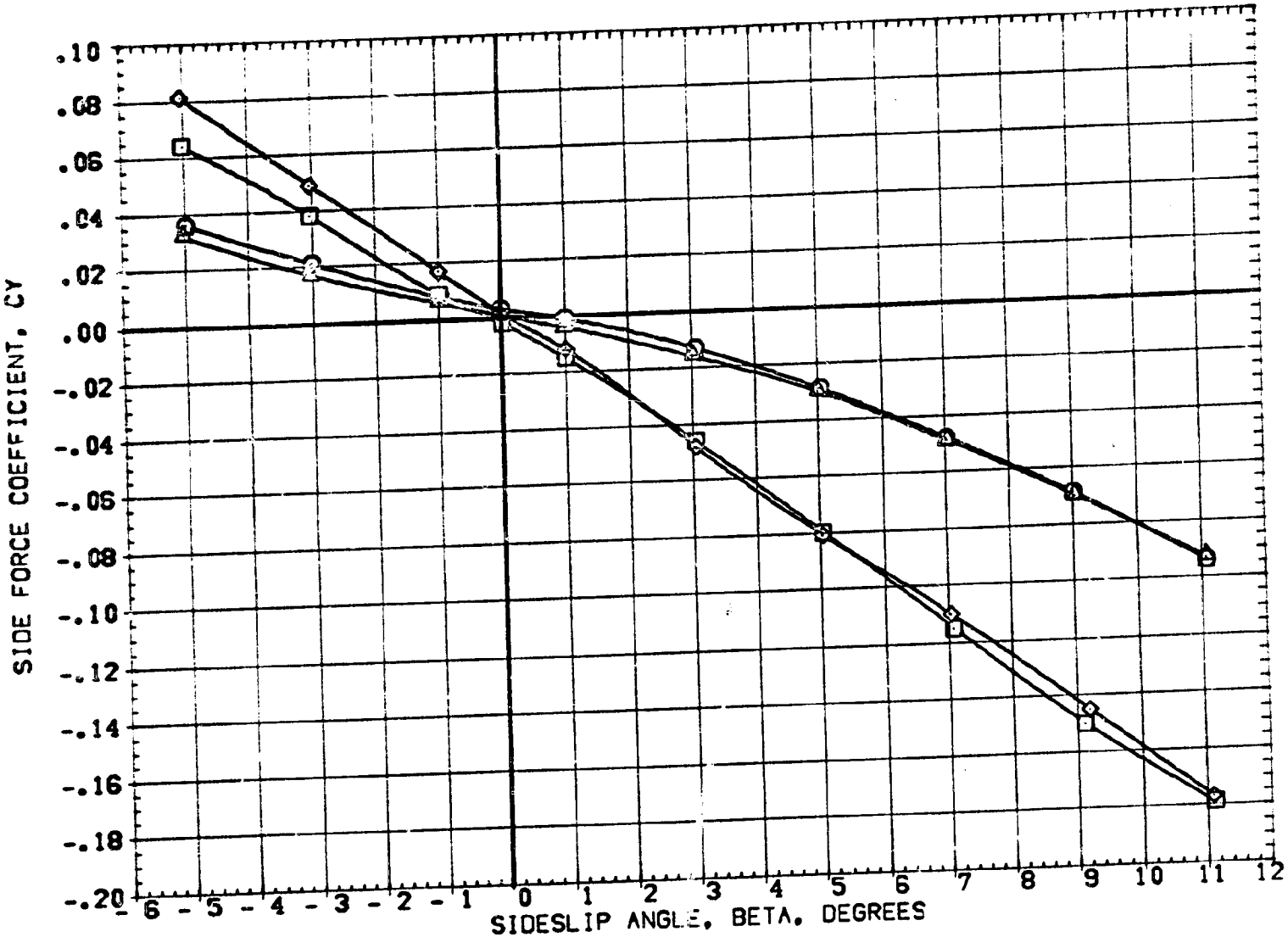


FIG. 15 EFFECT OF OMS PODS, ALPHA= 15 DEG.

(A)MACH = 0.26

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	ALPHA	BEFLAP
(BDF012)	○	SSV-ATP ORBITER B2C2D2	15.000	
(BDF028)	□	SSV-ATP ORBITER B2C2D2HI	15.000	
(BDF089)	◇	SSV-ATP ORBITER B2C2D2HIF1W2V3K2	15.000	0.000
(BDF094)	△	SSV-ATP ORBITER B2C2D2F1W[illegible]	15.000	0.000

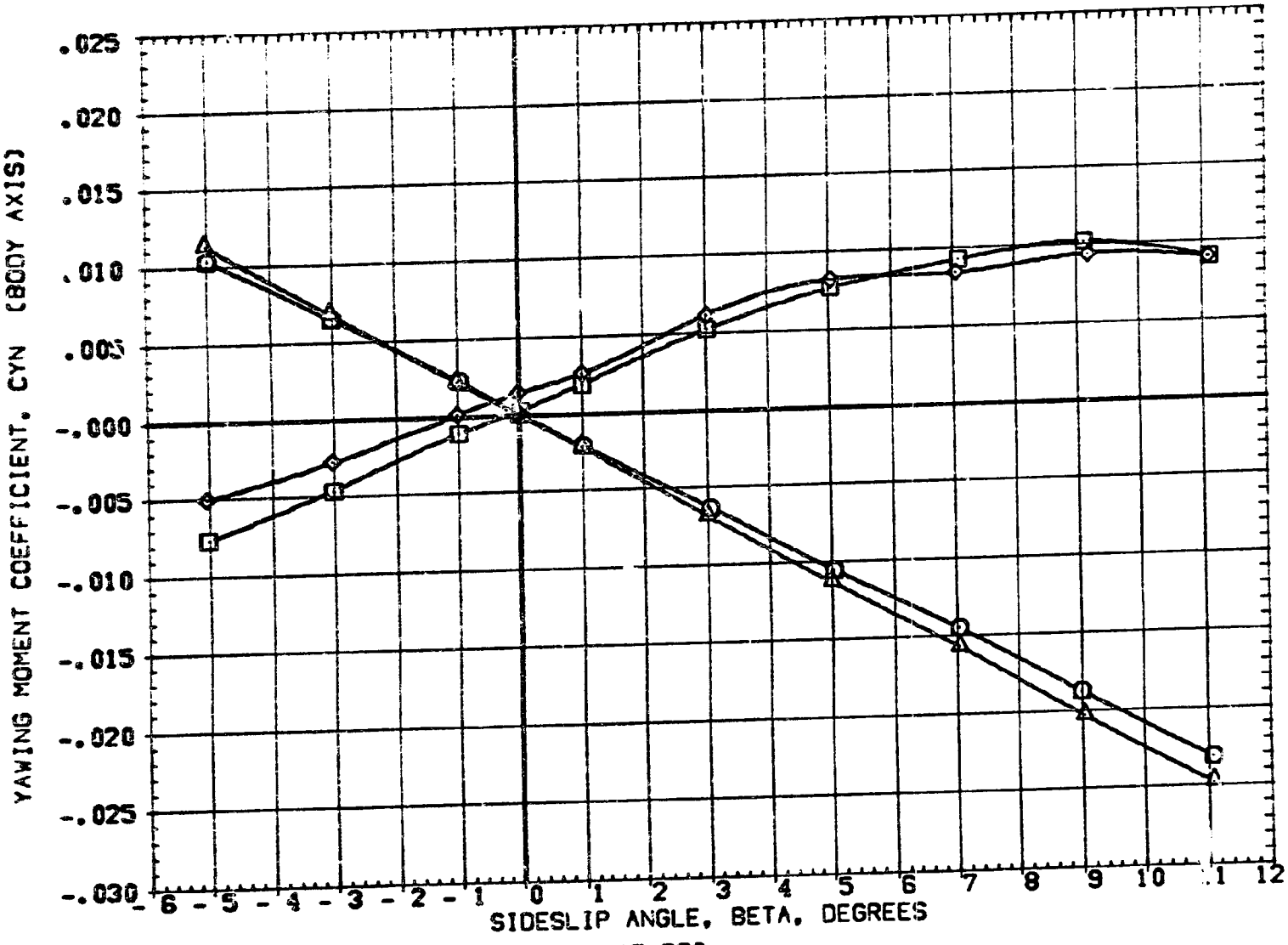


FIG. 15 EFFECT OF OMS PODS, ALPHA= 15 DEG.

(A)MACH = 0.26

REPRODUCIBILITY OF THE ORIGINAL PAGE IS POOR

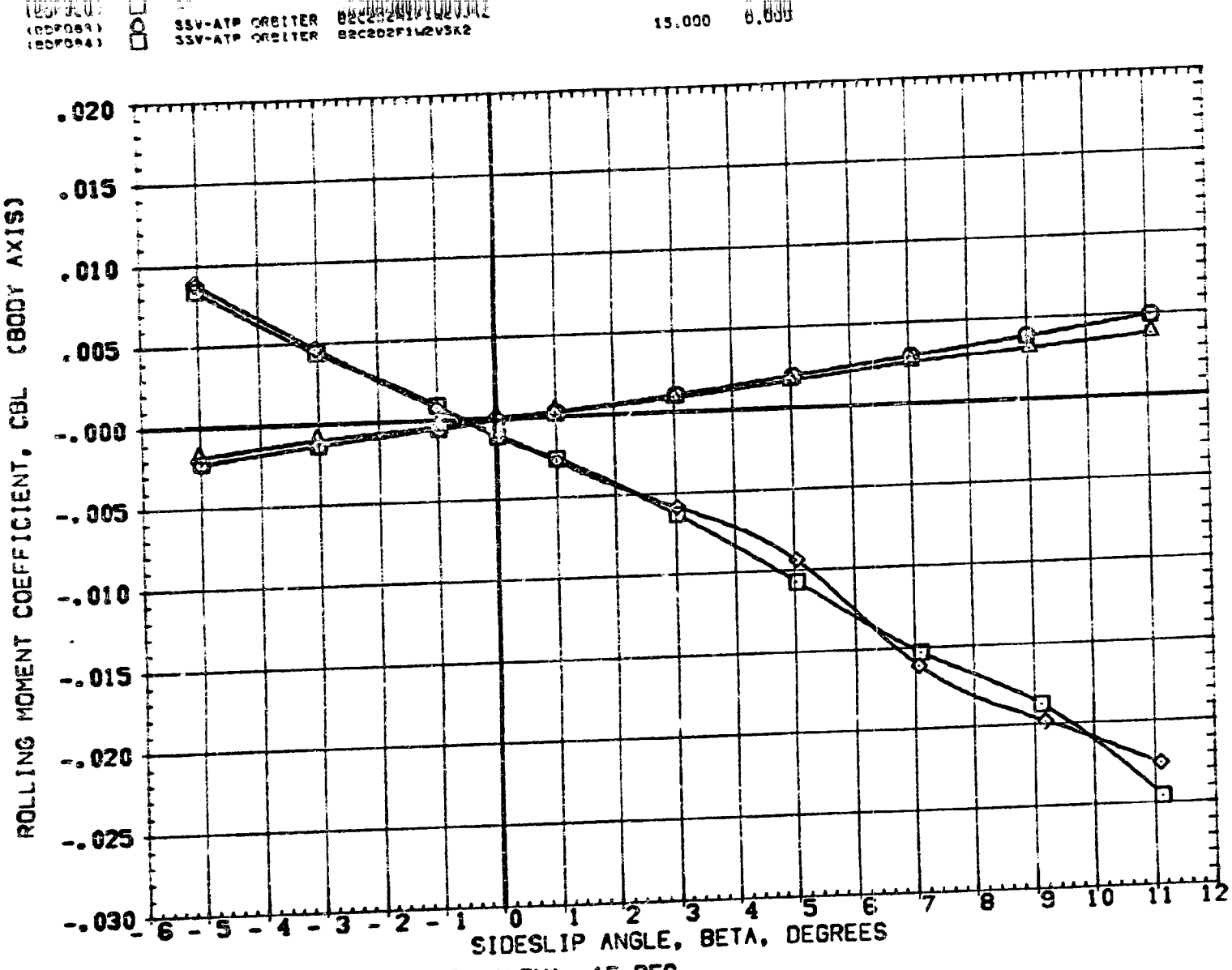


FIG. 15 EFFECT OF OMS PODS, ALPHA= 15 DEG.

(A)MACH = 0.26

DATA SET	SYMBOL	CONFIGURATION	DESCRIPTION	ALPHA	B2FLAP
(80F013)	○	SSV-ATP	ORBITER B2C2D2	18.000	
(80F027)	◇	SSV-ATP	ORBITER B2C2D2H1	18.000	
(80F089)	△	SSV-ATP	ORBITER B2C2D2H1F1L2V3R2	18.000	0.000
(80F093)	□	SSV-ATP	ORBITER B2C2D2F1L2V3R2	18.000	0.000

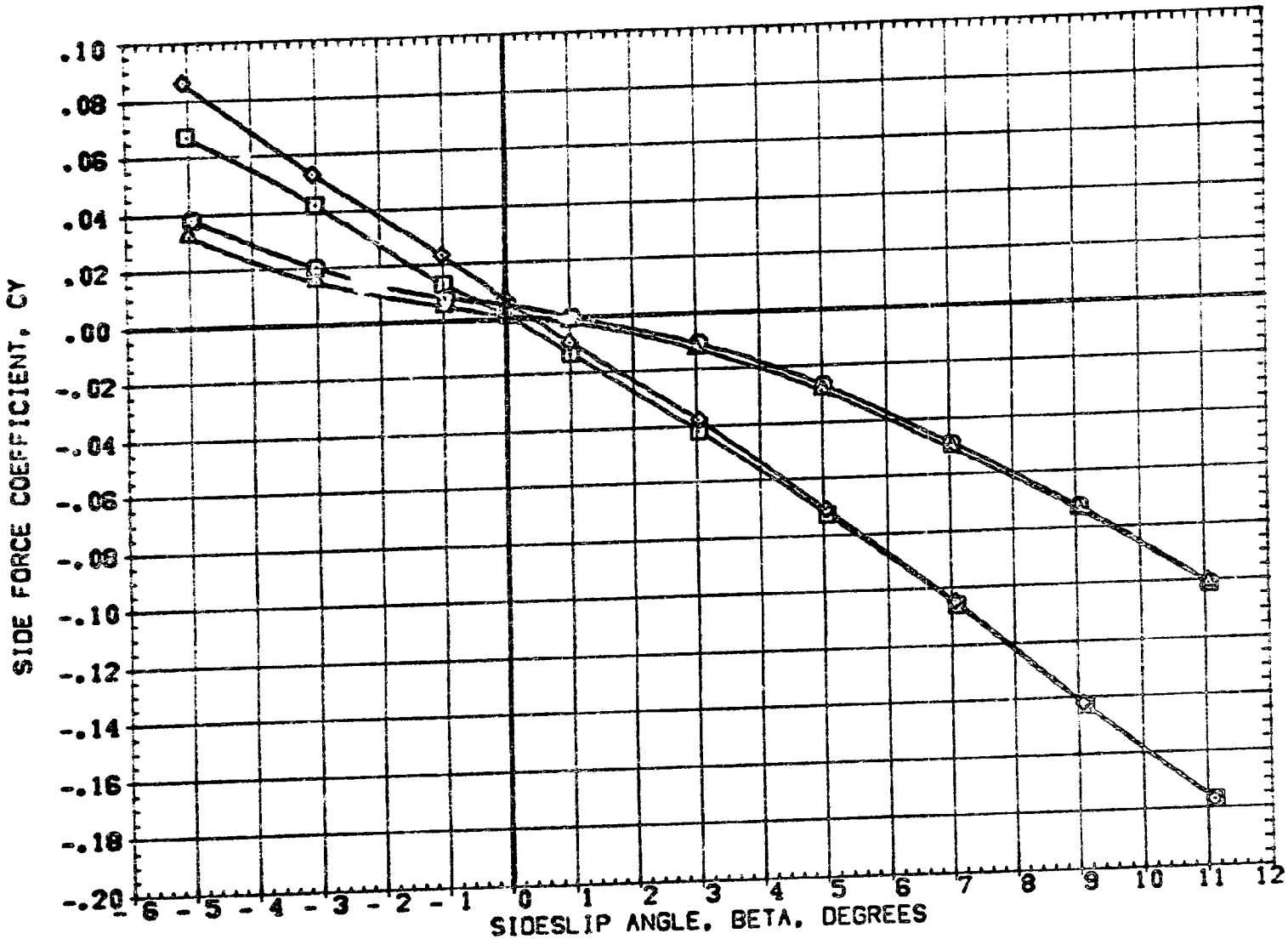


FIG. 16 EFFECT OF OMS PODS, ALPHA= 18 DEG.

(A)MACH = 0.26

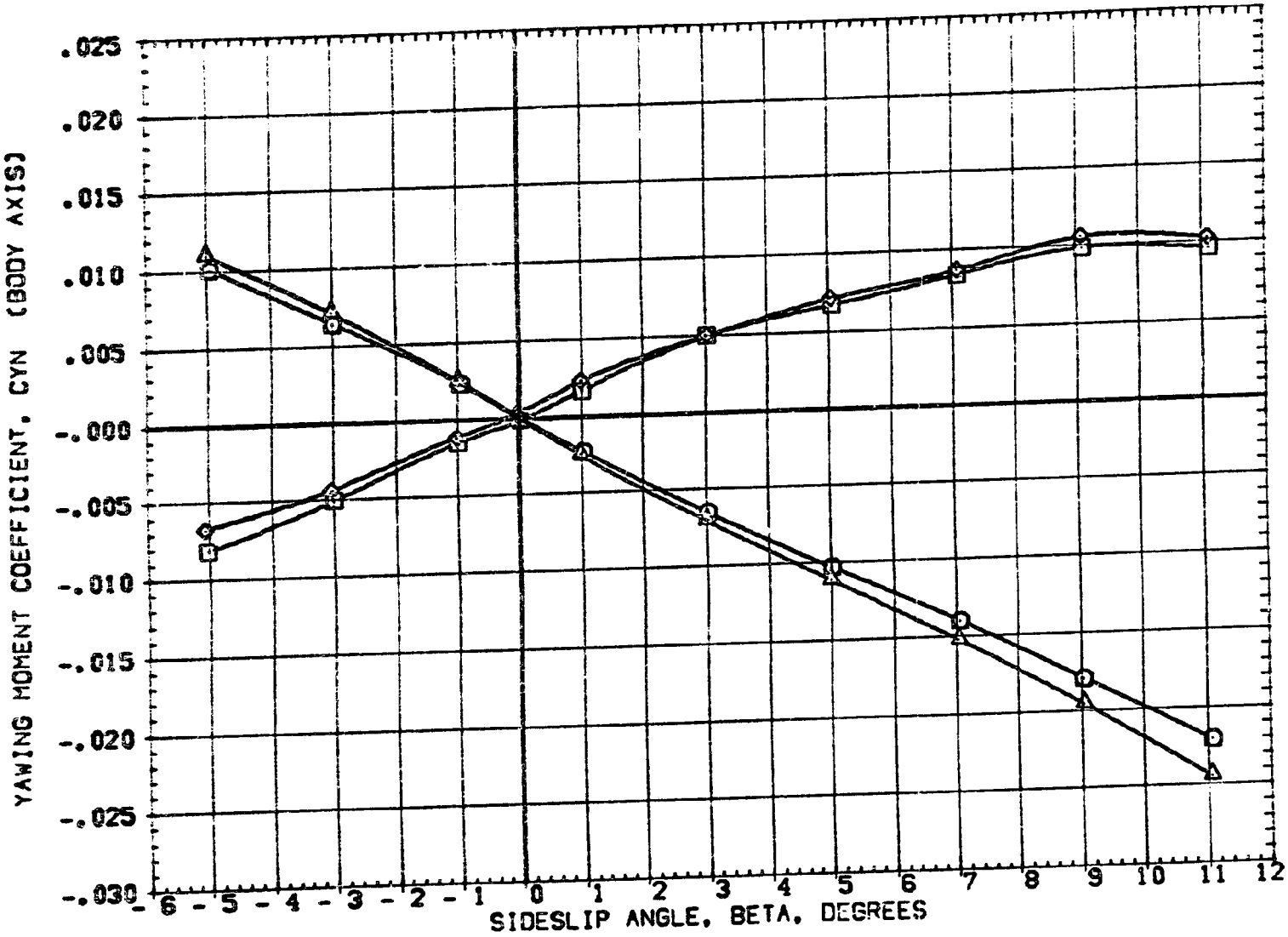


FIG. 16 EFFECT OF OMS PODS, ALPHA= 18 DEG.

(A)MACH = 0.26

REPRODUCIBILITY OF THE ORIGINAL PAGE

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	ALPHA	B2FLAP
(B0F015)	○	SSV-ATP ORBITER B2C2D2	19.000	
(B0F027)	◇	SSV-ATP ORBITER B2C2D2M1	18.000	
(B0F009)	□	SSV-ATP ORBITER B2C2D2M1F1W2V3X2	18.000	0.000
(B0F029)		SSV-ATP ORBITER B2C2D2F1W2V3X2	18.000	0.000

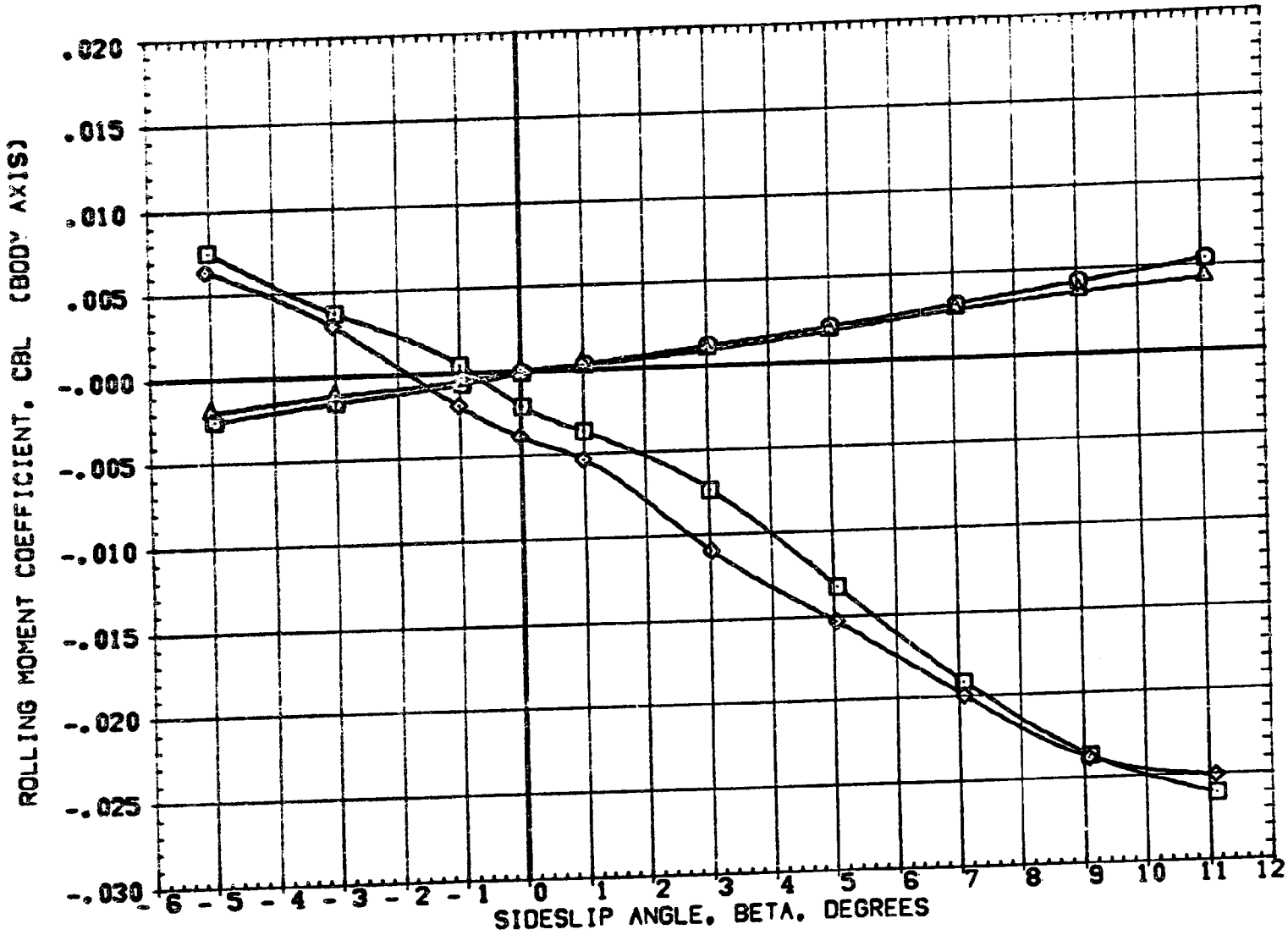


FIG. 16 EFFECT OF OMS PODS, ALPHA= 18 DEG.

(A)MACH = 0.26

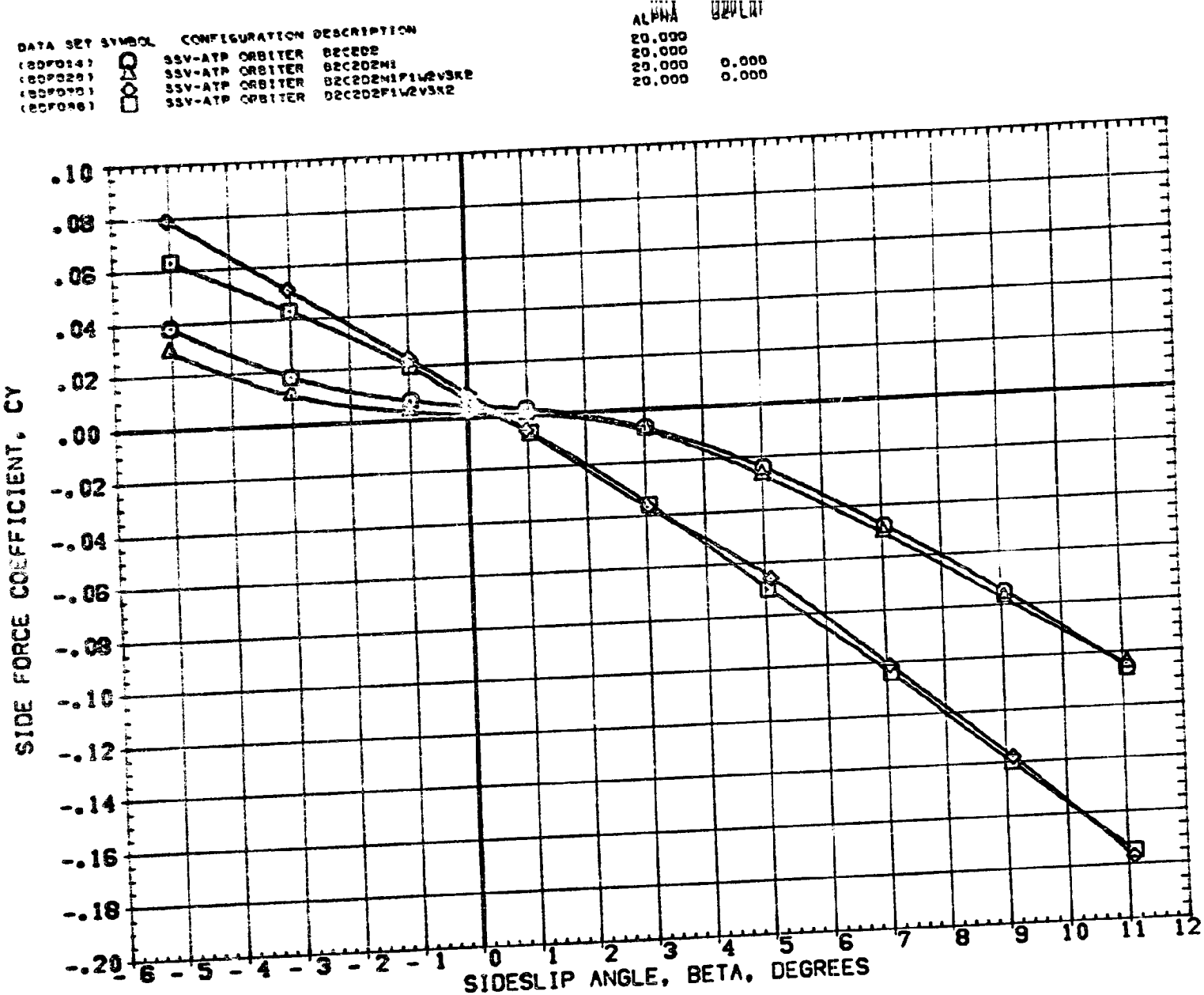


FIG. 17 EFFECT OF OMS PODS, ALPHA= 20 DEG.

(A)MACH = 0.26

REPRODUCIBILITY OF THE ORIGINAL

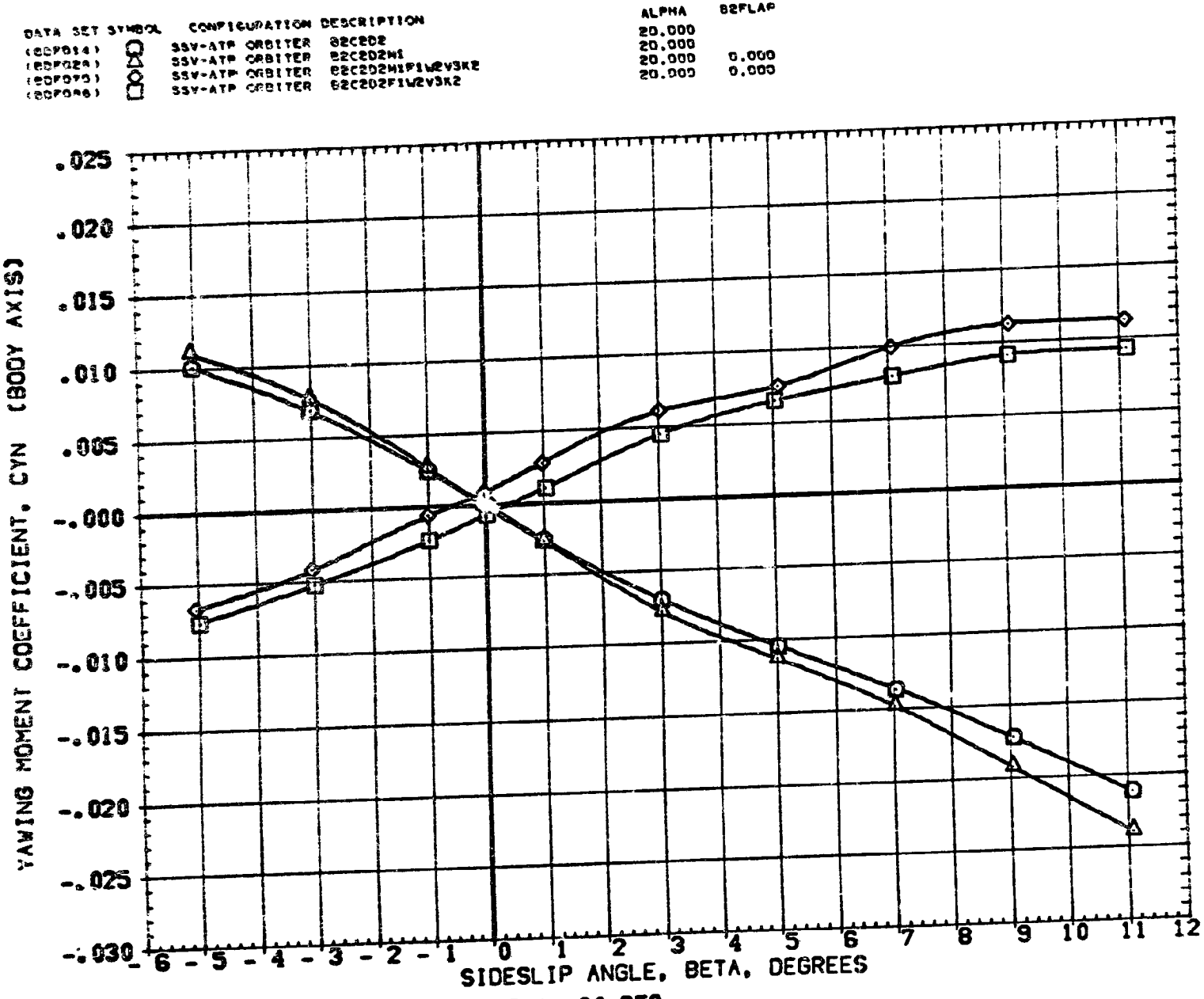


FIG. 17 EFFECT OF OMS PODS, ALPHA= 20 DEG.

(A)MACH = 0.26

REPRODUCIBILITY OF THE ORIGINAL

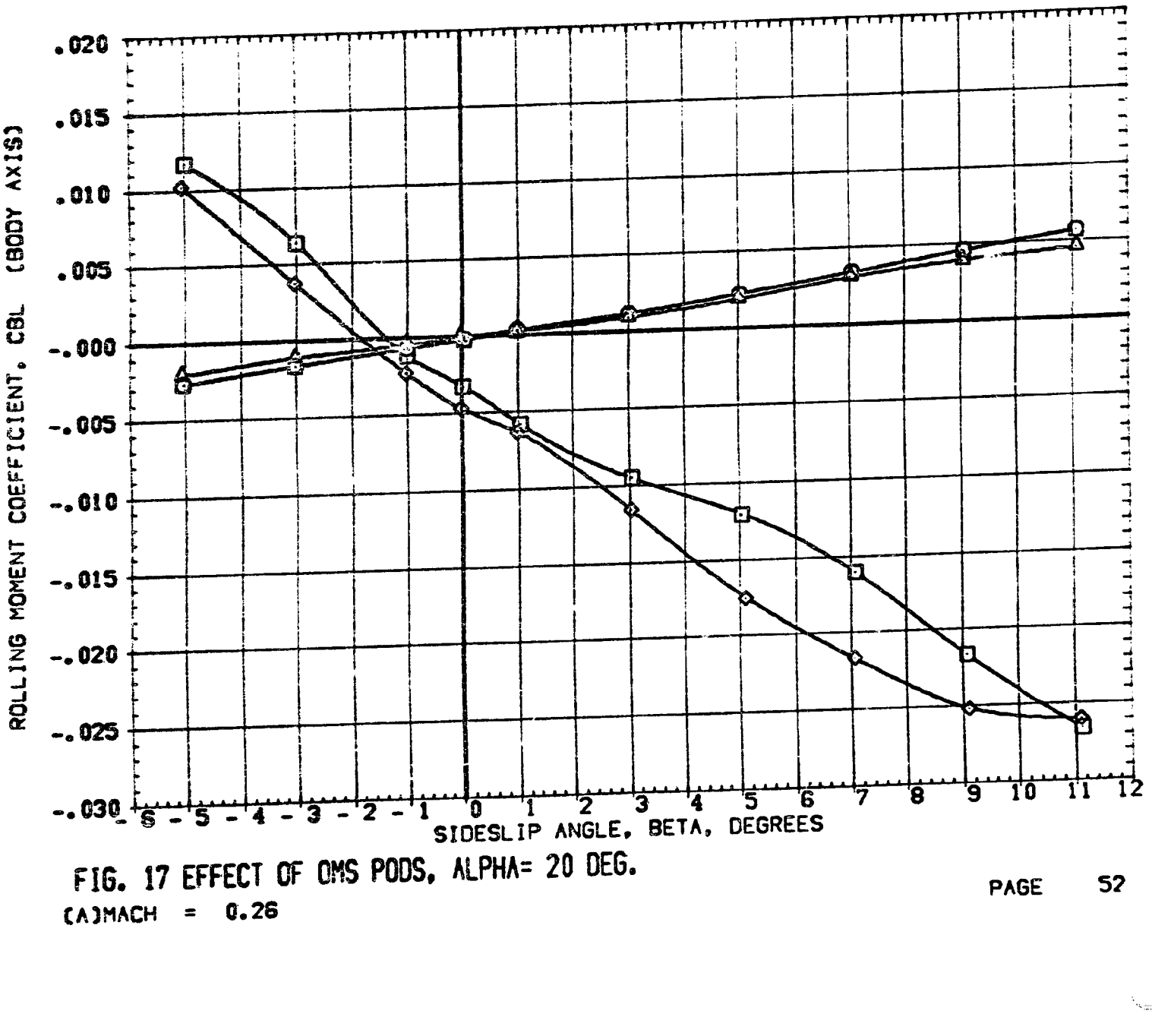


FIG. 17 EFFECT OF OMS PODS, ALPHA= 20 DEG.

(A)MACH = 0.26

REPRODUCIBILITY OF THE ORIGINAL

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	B2FLAP
(ADF066)	SSV-ATP ORBITER B2H1F1W2V3K2	0.000	0.000
(ADF067)	SSV-ATP ORBITER B2C2H1F1W2V3K2	0.000	0.000
(ADF064)	SSV-ATP ORBITER B2C2D2H1F1W2V3K2	0.000	0.000

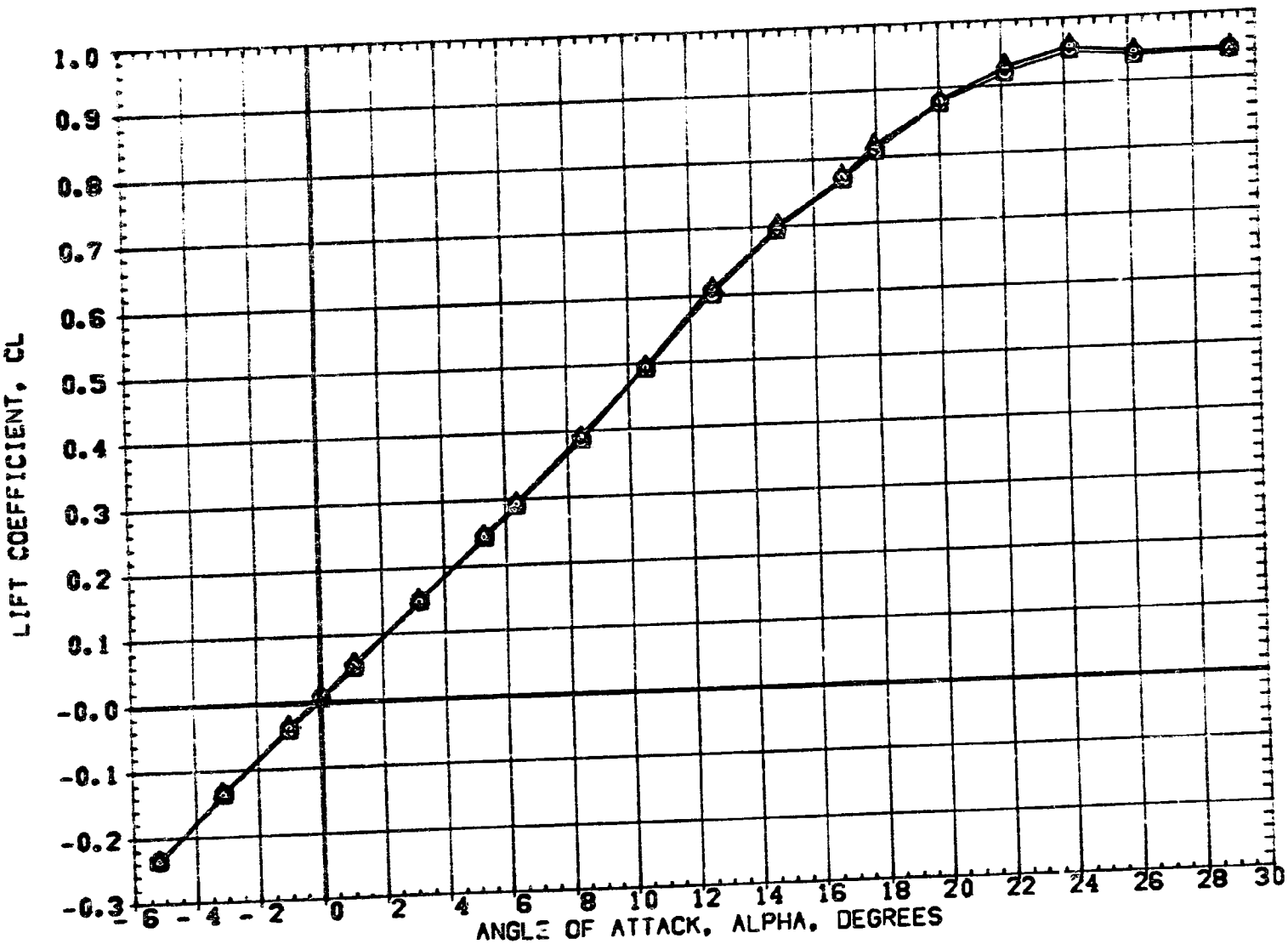


FIG. 18 EFFECT OF MAH AND CANOPY. BETA= 0 DEG.

(A)MACH = 0.26

REPRODUCIBILITY OF THE ORIGINAL PAGE IS POOR.

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION		
(ADF0398)		SSV-ATP ORBITER B2M1F1W2V3R2	0.000	0.000
(ADF0399)		SSV-ATP ORBITER B2C2M1F1W2V3R2	0.000	0.000
(ADF0841)		SSV-ATP ORBITER B2C2D2M1F1W2V3R2	0.000	0.000

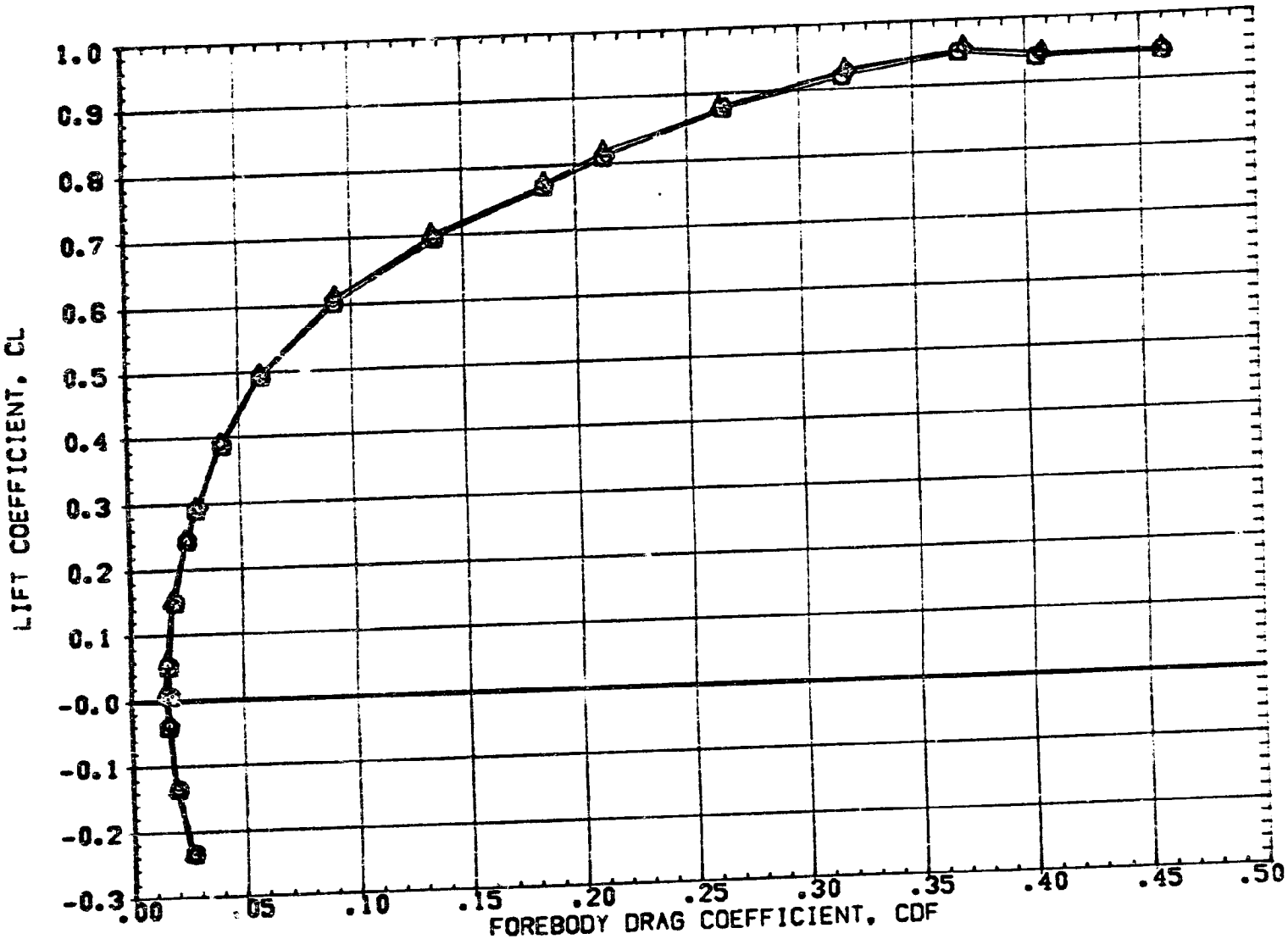


FIG. 18 EFFECT OF MAH AND CANOPY, BETA= 0 DEG.

(A)MACH = 0.26

REPRODUCIBILITY OF THE ORIGINAL PAGE IS POOR.

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	BETA	BEFLAP
(ADFC058)	○	SSV-ATP ORBITER B2H1F1W2V3R2	0.000	0.000
(ADFC059)	△	SSV-ATP ORBITER B2C2H1F1W2V3R2	0.000	0.000
(ADFC064)	◇	SSV-ATP ORBITER B2C2D2H1F1W2V3R2	0.000	0.000

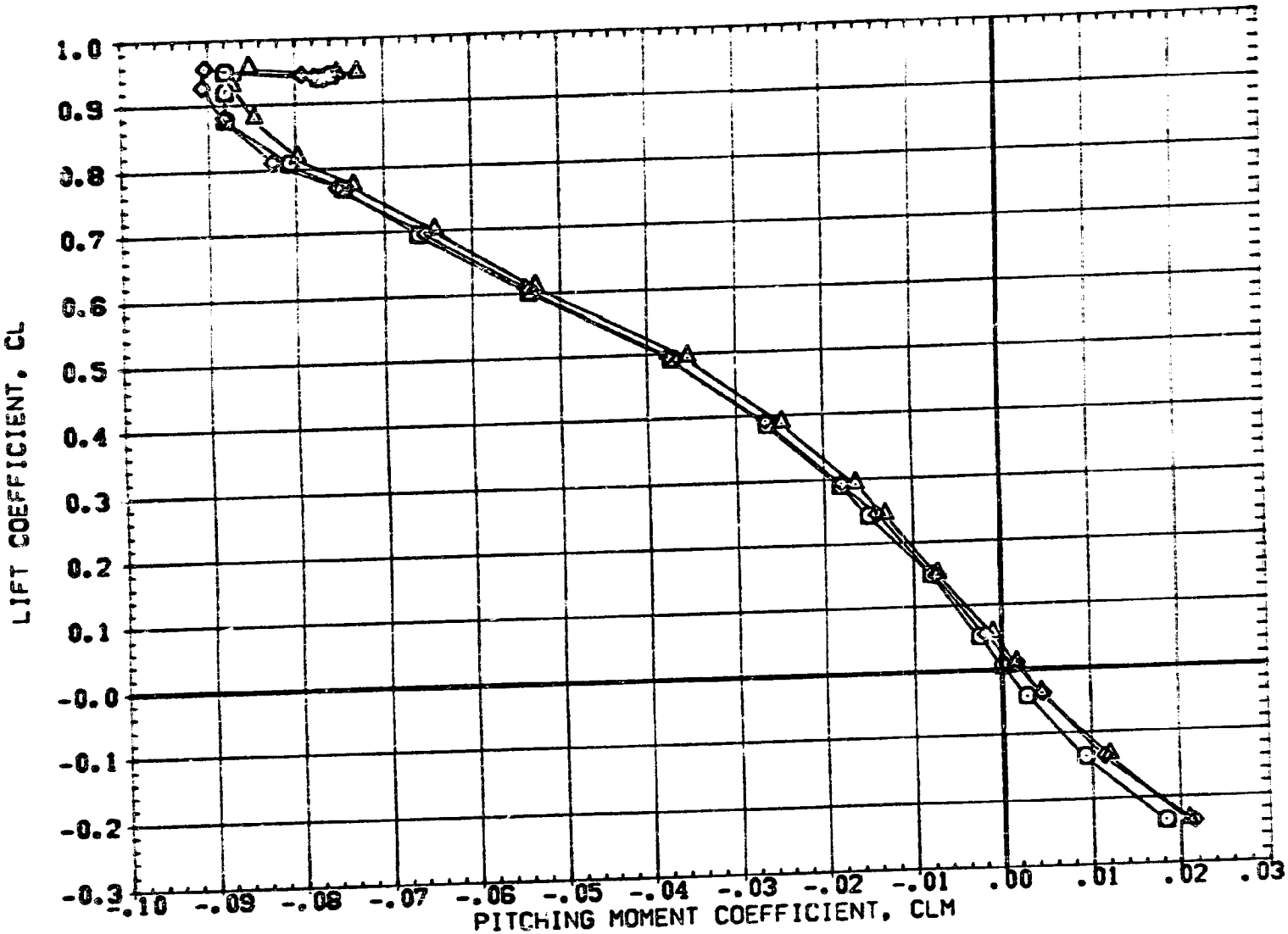


FIG. 18 EFFECT OF MAH AND CANOPY, BETA= 0 DEG.

(A)MACH = 0.26

REPRODUCIBILITY OF THE ORIGINAL PAGE IS POOR

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	BETA	B2FLAP
(ADF096)	○	SSV-ATP ORBITER B2M1F1W2V3K2	0.000	0.000
(ADF089)	△	SSV-ATP ORBITER B2C2M1F1W2V3K2	0.000	0.000
(ADF084)	◇	SSV-ATP ORBITER B2C2D2M1F1W2V3K2	0.000	0.000

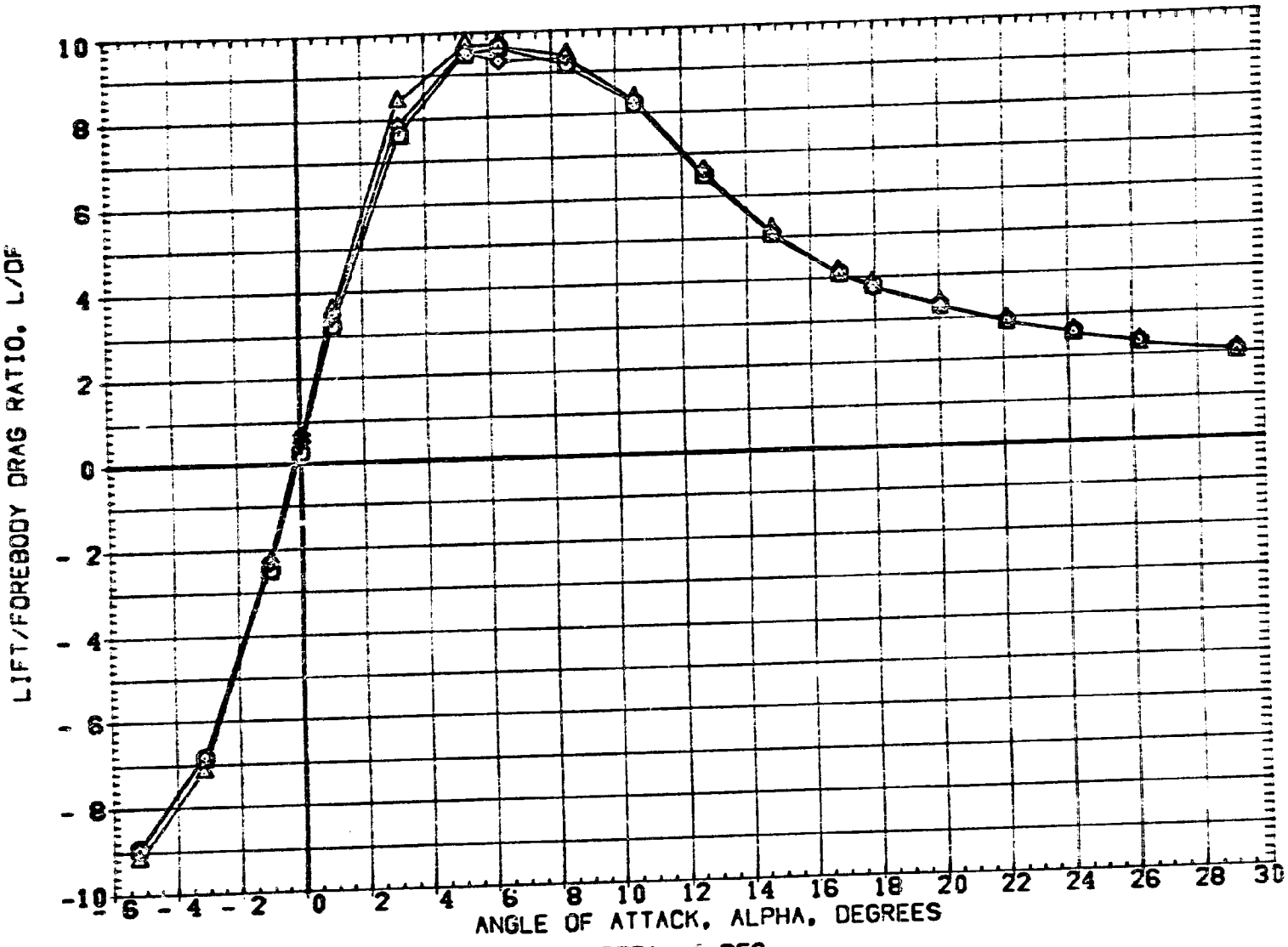


FIG. 18 EFFECT OF MAH AND CANOPY, BETA= 0 DEG.

(A)MACH = 0.26

REPRODUCIBILITY OF THE ORIGINAL PAGE IS POOR

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	BETA	B2FLAP
(ADFC096)	□	SSV-ATP ORBITER B2M1F1W2V3K2	0.000	0.000
(ADFC093)	○	SSV-ATP ORBITER B2C2M1F1W2V3K2	0.000	0.000
(ADFC064)	◇	SSV-ATP ORBITER B2C2D2M1F1W2V3K2	0.000	0.000

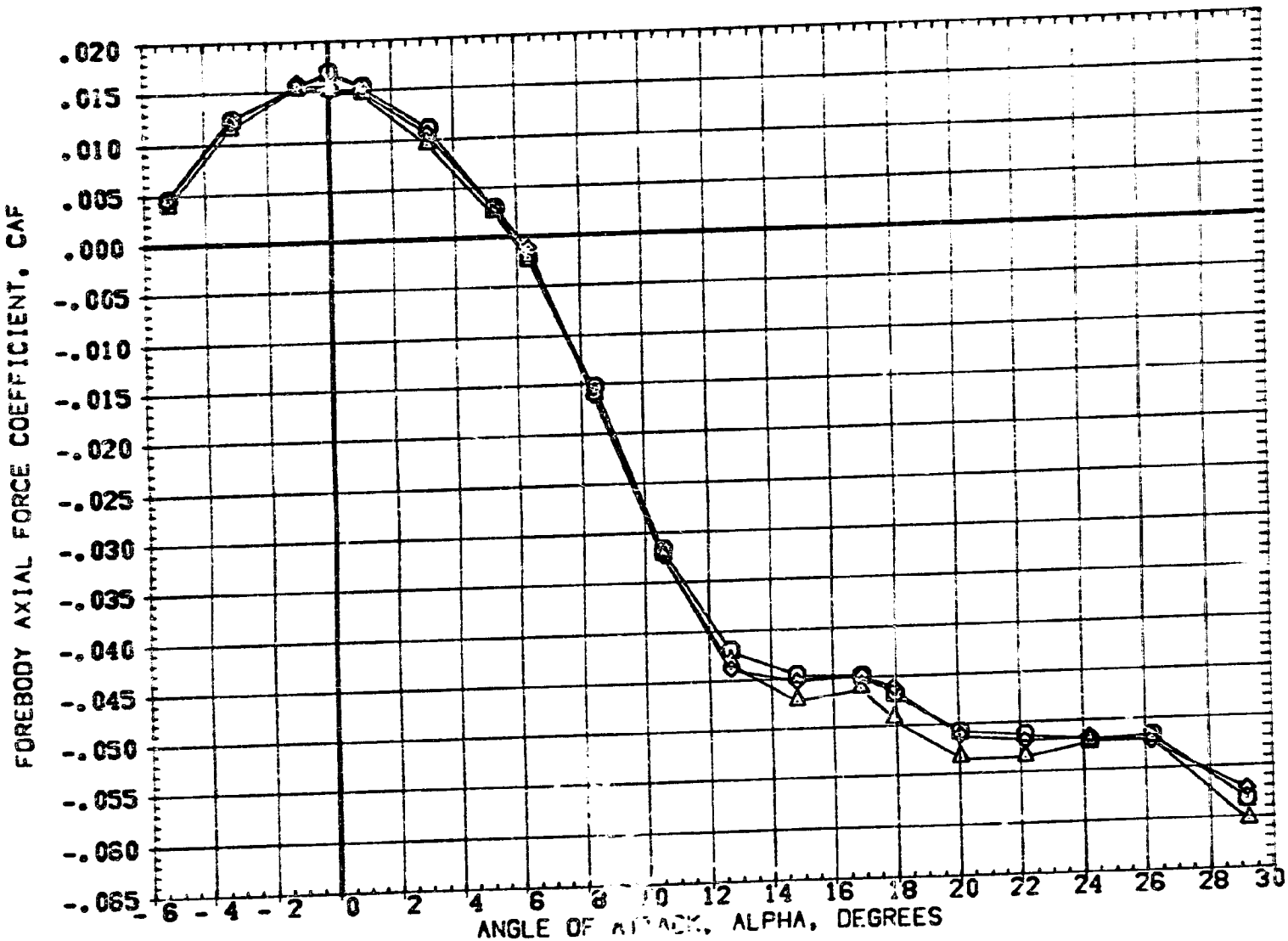


FIG. 18 EFFECT OF MAH AND CANOPY, BETA= 0 DEG.

(A)MACH = 0.26

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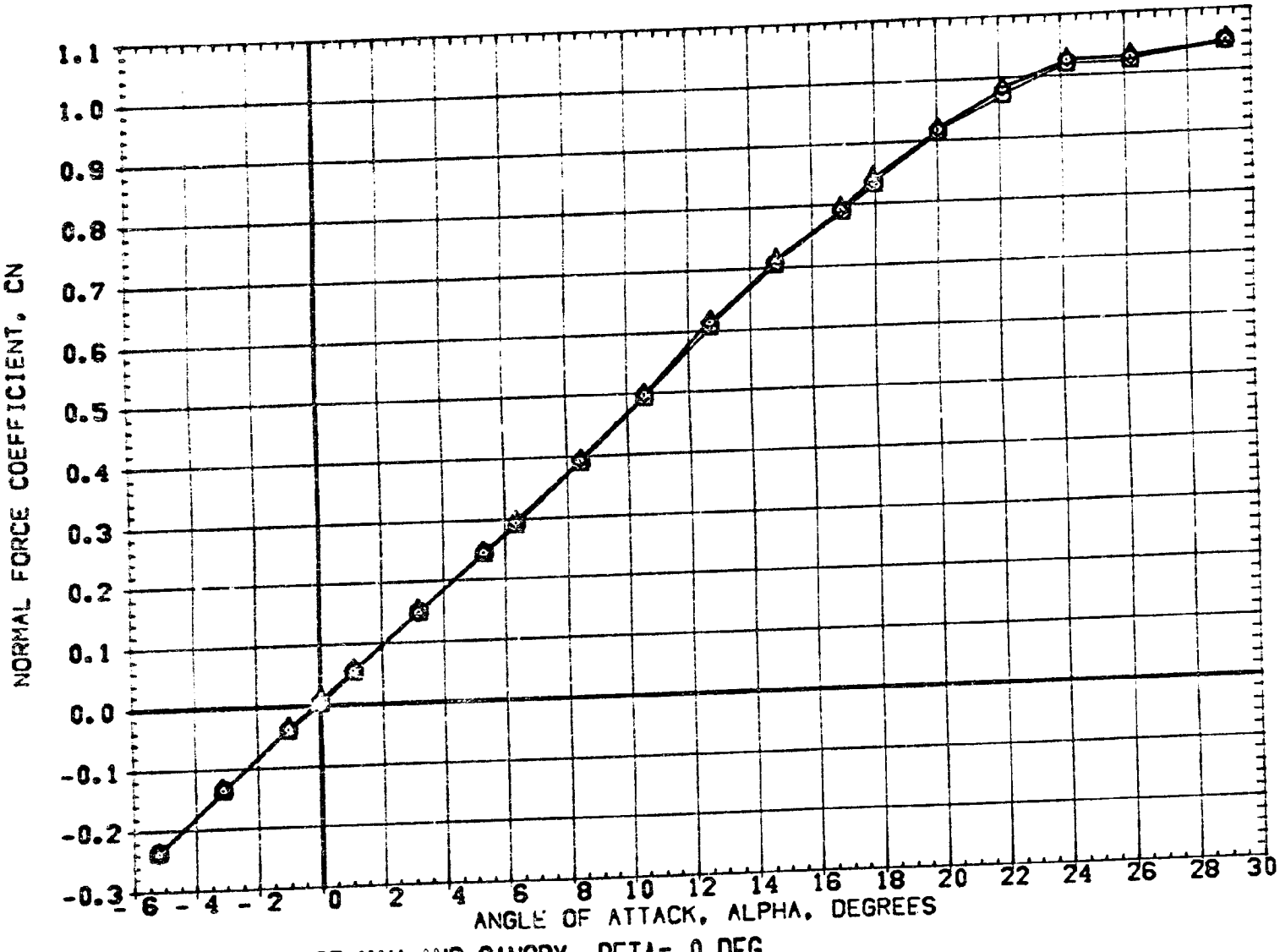


FIG. 18 EFFECT OF MAH AND CANOPY, BETA= 0 DEG.

(A)MACH = 0.26

REPRODUCIBILITY OF THE ORIGINAL PAGE IS POOR

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	BEFLAP
(ADF0396)	SSV-ATP ORBITER B8H1F1W2V3K2	0.000	0.000
(ADF0397)	SSV-ATP ORBITER B8CBH1F1W2V3K2	0.000	0.000
(ADF0384)	SSV-ATP ORBITER B2CC202H1F1W2V3K2	0.000	0.000

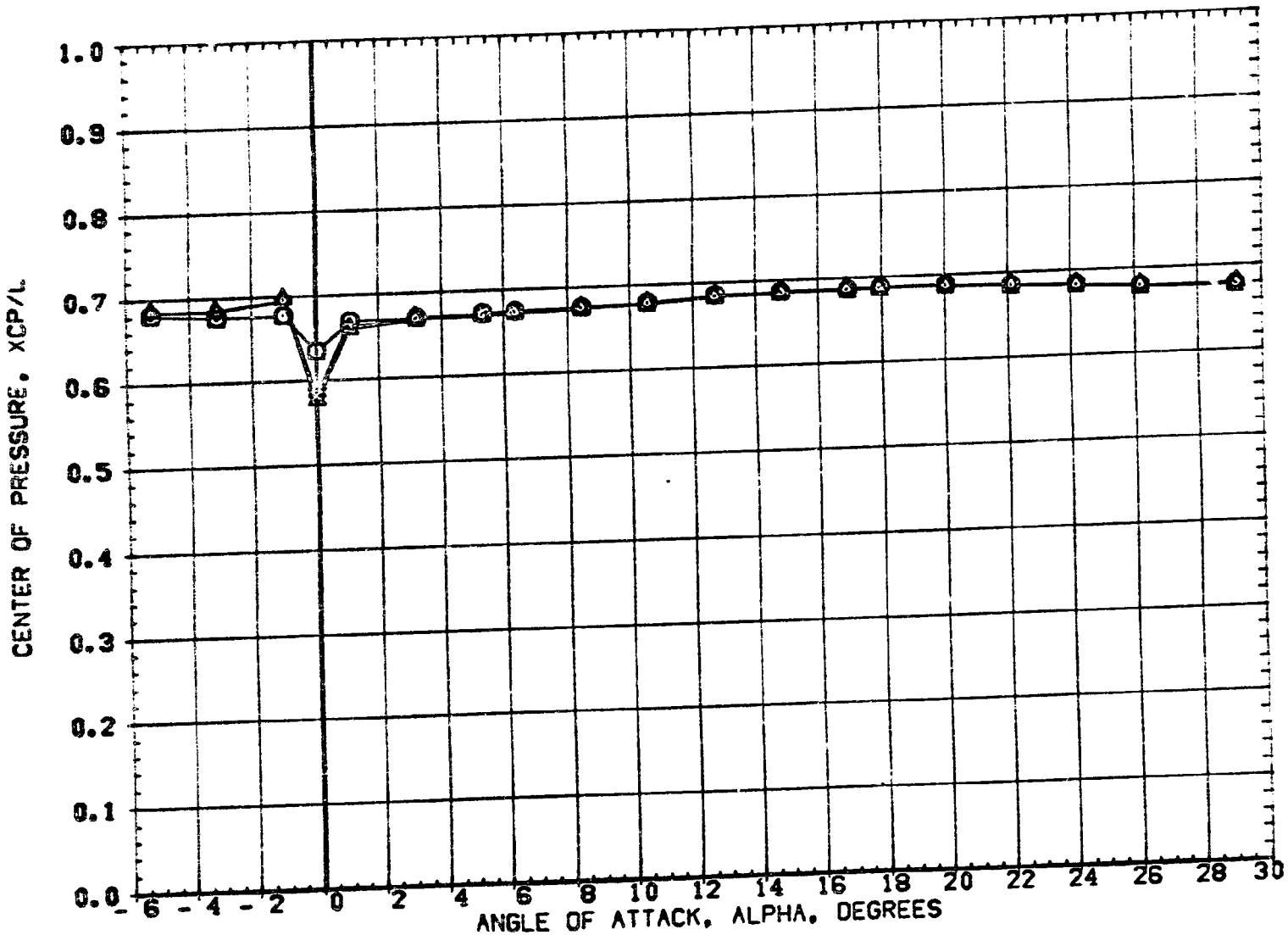


FIG. 18 EFFECT OF MAH AND CANOPY, BETA= 0 DEG.

(A)MACH = 0.26

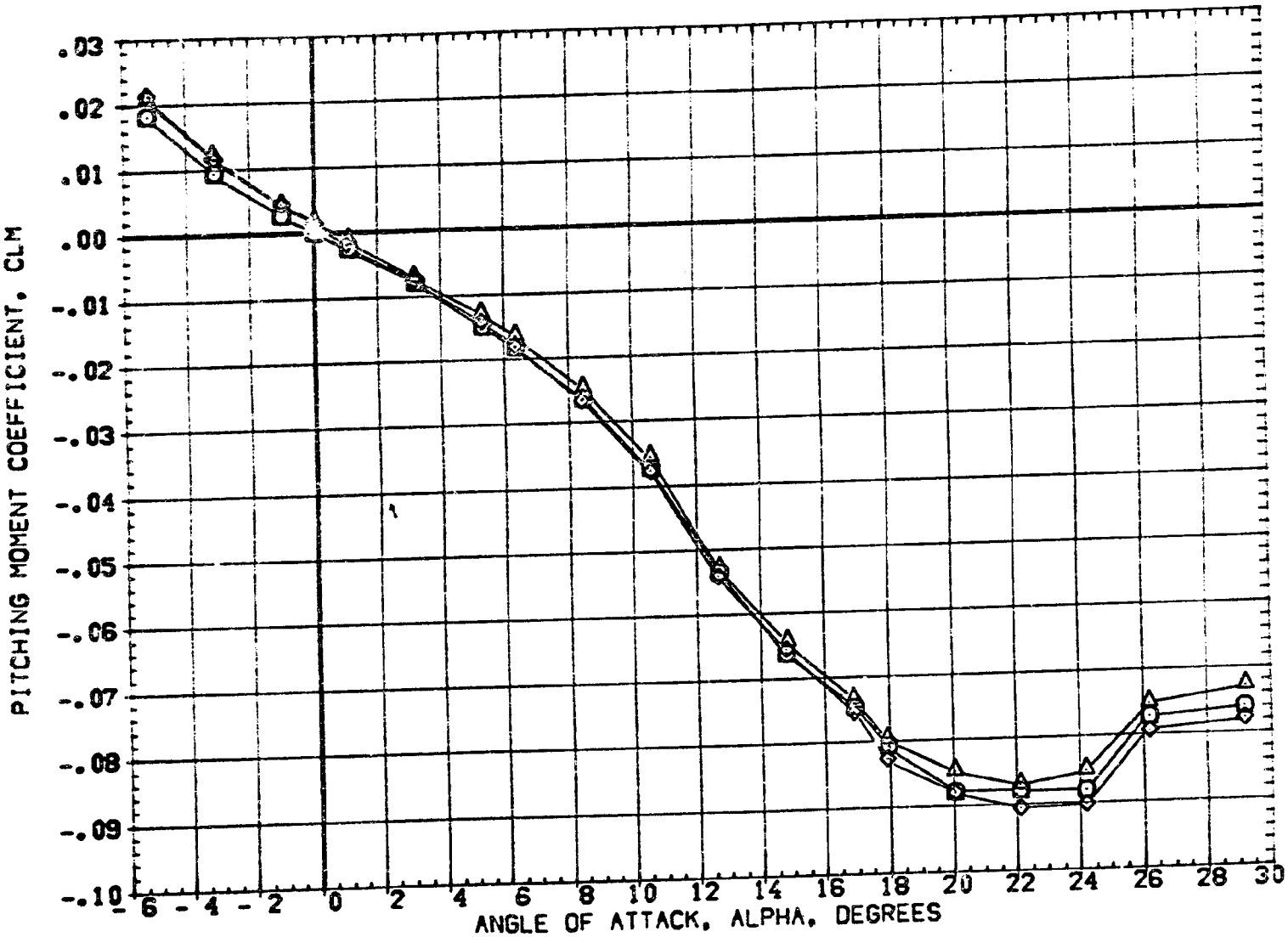


FIG. 18 EFFECT OF MAH AND CANOPY, BETA= 0 DEG.

(A)MACH = 0.26

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	ALPHA	B2FLAP
(BDF097)	○	SSV-ATP ORBITER B2M1F1W2V3R2	0.000	0.000
(BDF090)	△	SSV-ATP ORBITER B2C2M1F1W2V3R2	0.000	0.000
(BDF085)	◇	SSV-ATP ORBITER B2C2D2M1F1W2V3R2	0.000	0.000

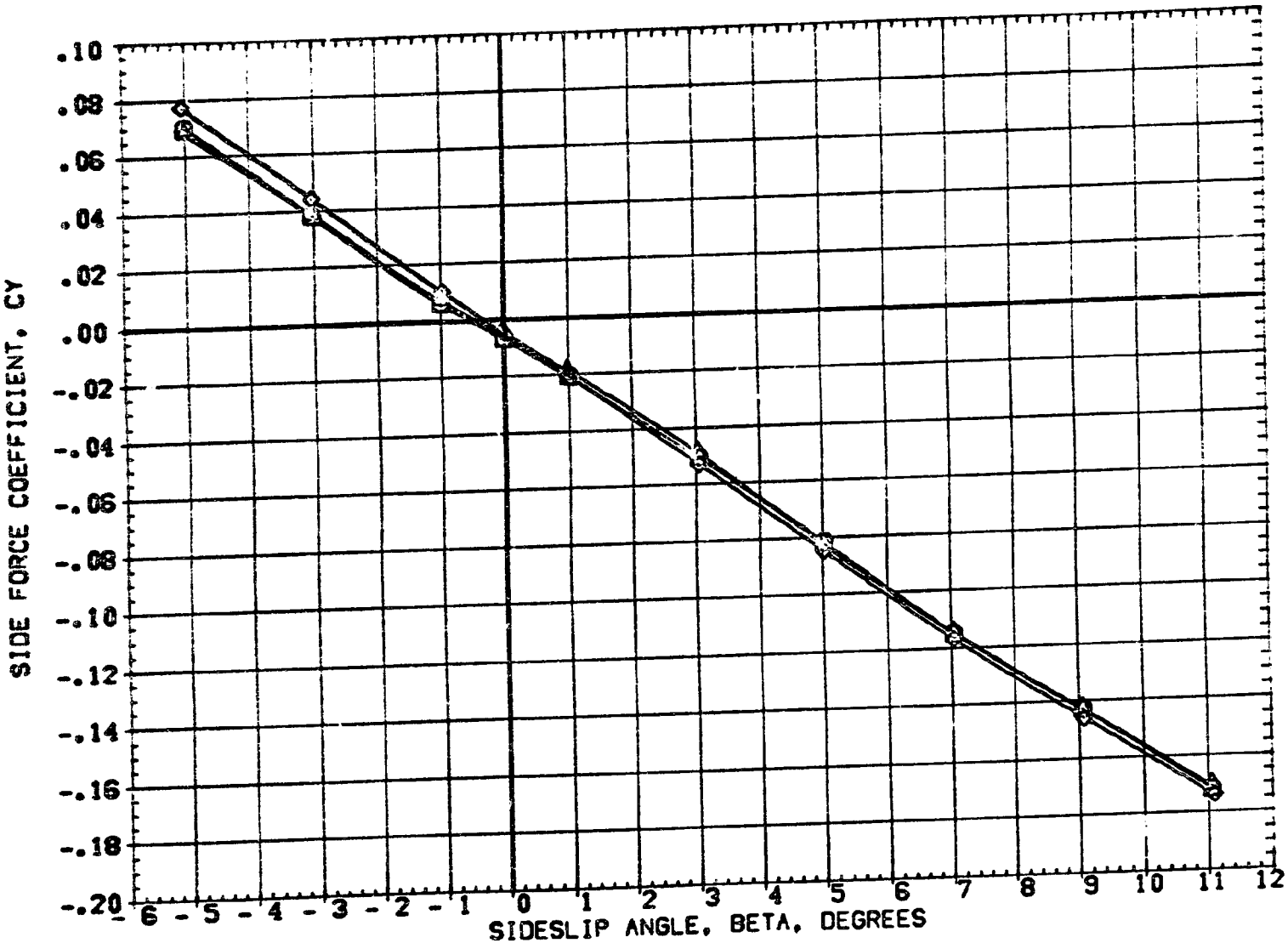


FIG. 19 EFFECT OF MAH AND CANOPY, ALPHA= 0 DEG.

(A)MACH = 0.26

(80F069) SSV-ATP ORBITER B2C2M1F1W2V3K2 0.000 0.000

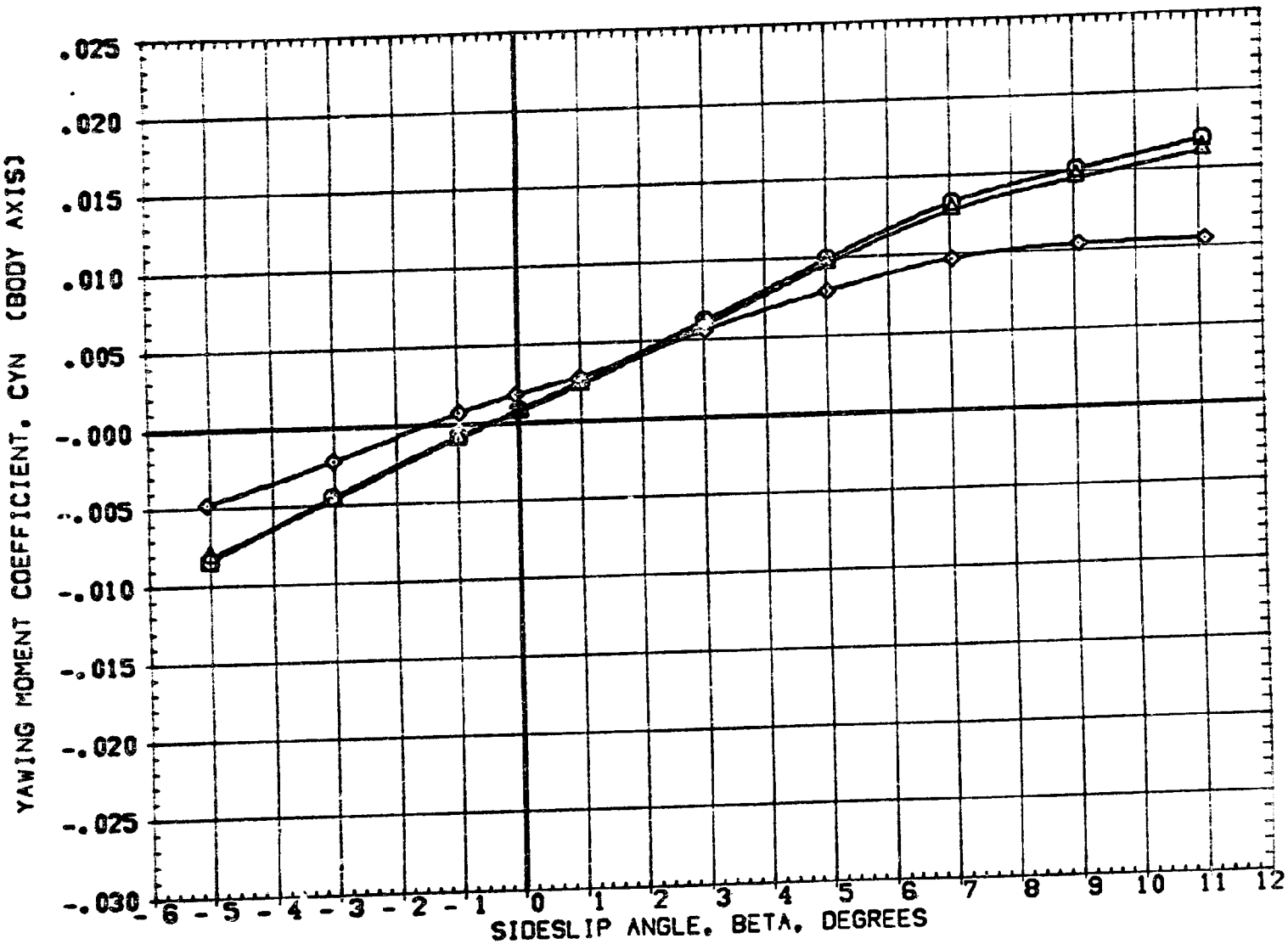


FIG. 19 EFFECT OF MAH AND CANOPY, ALPHA= 0 DEG.

(A)MACH = 0.26

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ALPHA	B2FLAP
(EDF097) ○	SSV-ATP ORBITER B2M1F1W2V3K2	0.000	0.000
(EDF099) △	SSV-ATP ORBITER B2C2M1F1W2V3K2	0.000	0.000
(EDF069) ◇	SSV-ATP ORBITER B2C2D2M1F1W2V3K2	0.000	0.000

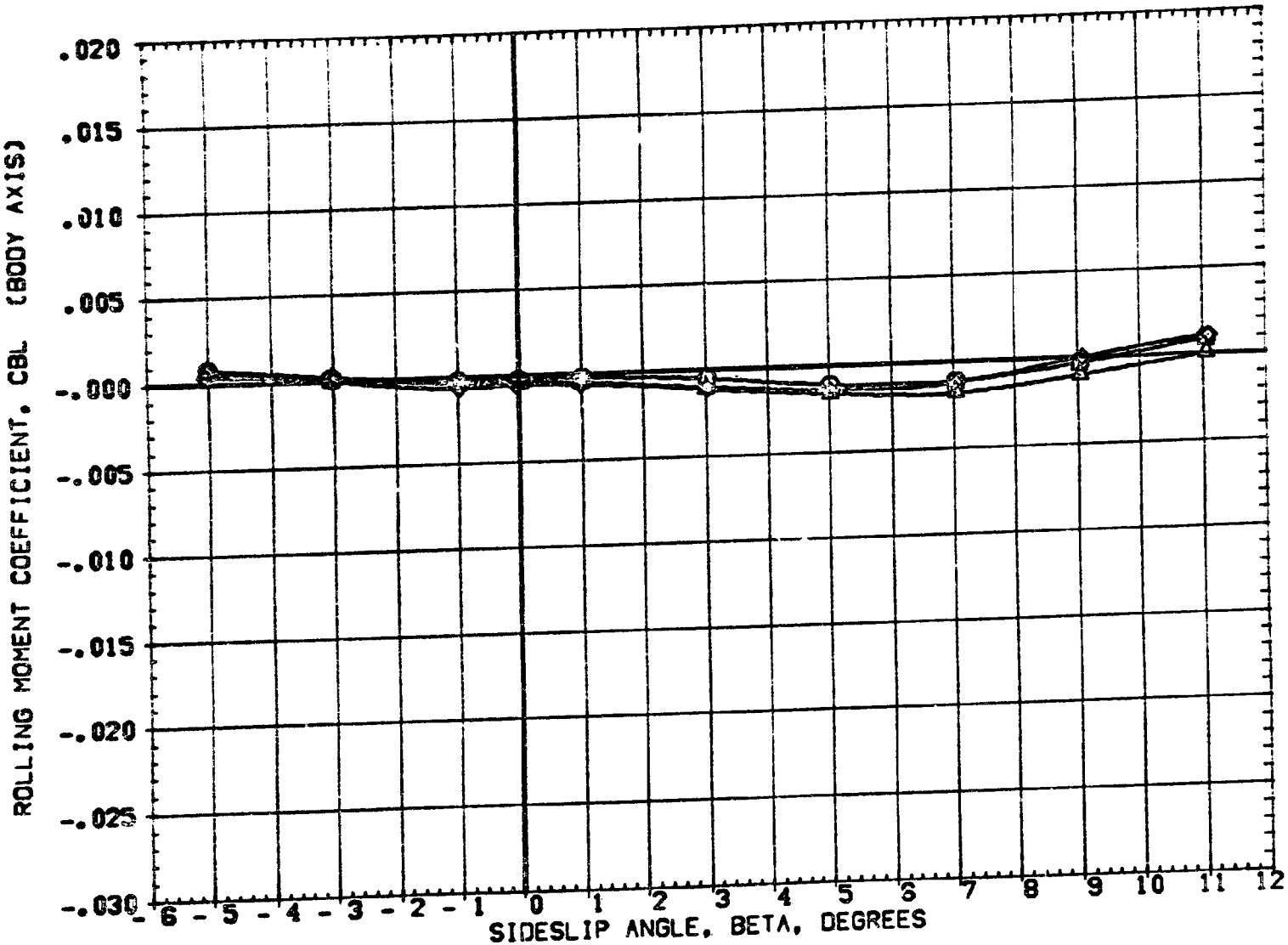


FIG. 19 EFFECT OF MAH AND CANOPY, ALPHA= 0 DEG.

(A)MACH = 0.26

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION		
(80P088)	□	SSV-ATP ORBITER	02M1F1W2V3K2	5.000 0.000
(80P091)	△	SSV-ATP ORBITER	02C2M1F1W2V3K2	5.000 0.000
(80P068)	◇	SSV-ATP ORBITER	02C2D2M1F1W2V3K2	5.000 0.000

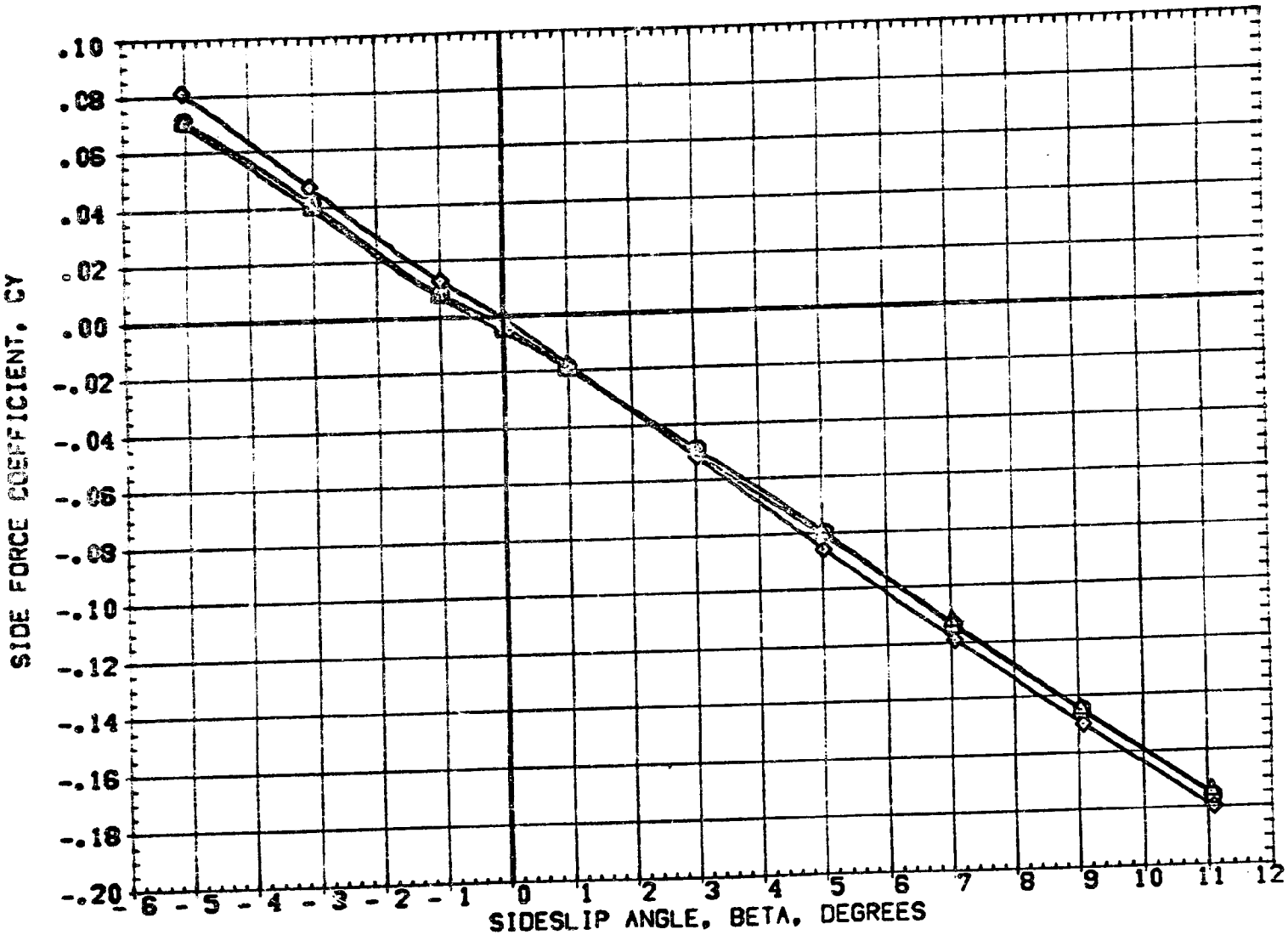


FIG. 20 EFFECT OF MAH AND CANOPY, ALPHA= 5 DEG.

(A)MACH = 0.26

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	ALPHA	B2FLAP
(80FS90)	○	SSV-ATP ORBITER B2M1F1W2V3K2	5.000	0.000
(80FS91)	□	SSV-ATP ORBITER B2C2M1F1W2V3K2	5.000	0.000
(80FS86)	◇	SSV-ATP ORBITER B2C2D2M1F1W2V3K2	5.000	0.000

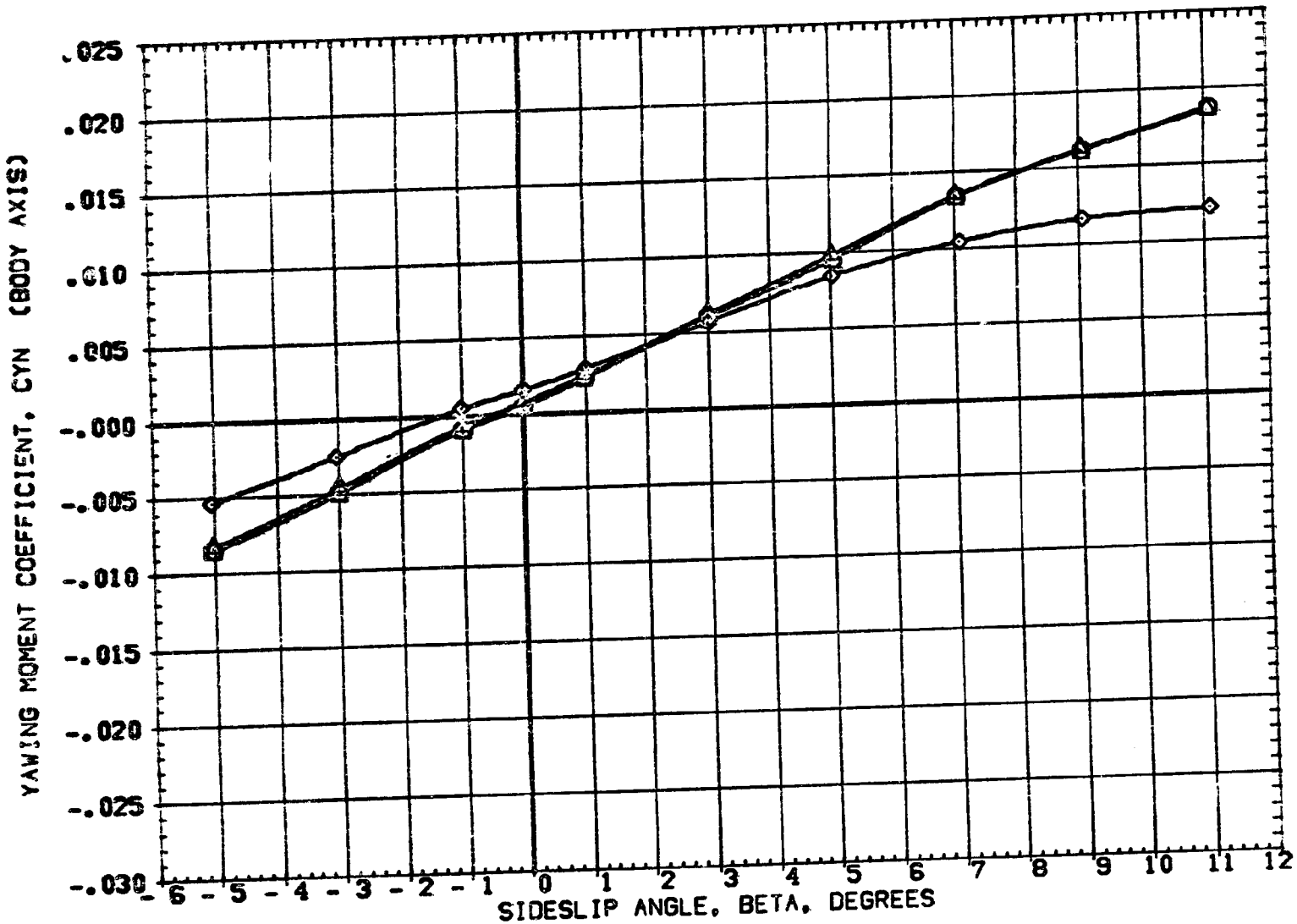


FIG. 20 EFFECT OF MAH AND CANOPY, ALPHA= 5 DEG.

(A)MACH = 0.26

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	ALPHA	B2FLAP
(80F094)	☐	SSV-ATP ORBITER B2M1F1W2V3K2	5.000	0.000
(80F091)	△	SSV-ATP ORBITER B2C2M1F1W2V3K2	5.000	0.000
(80F068)	◇	SSV-ATP ORBITER B2C2D2M1F1W2V3K2	5.000	0.000

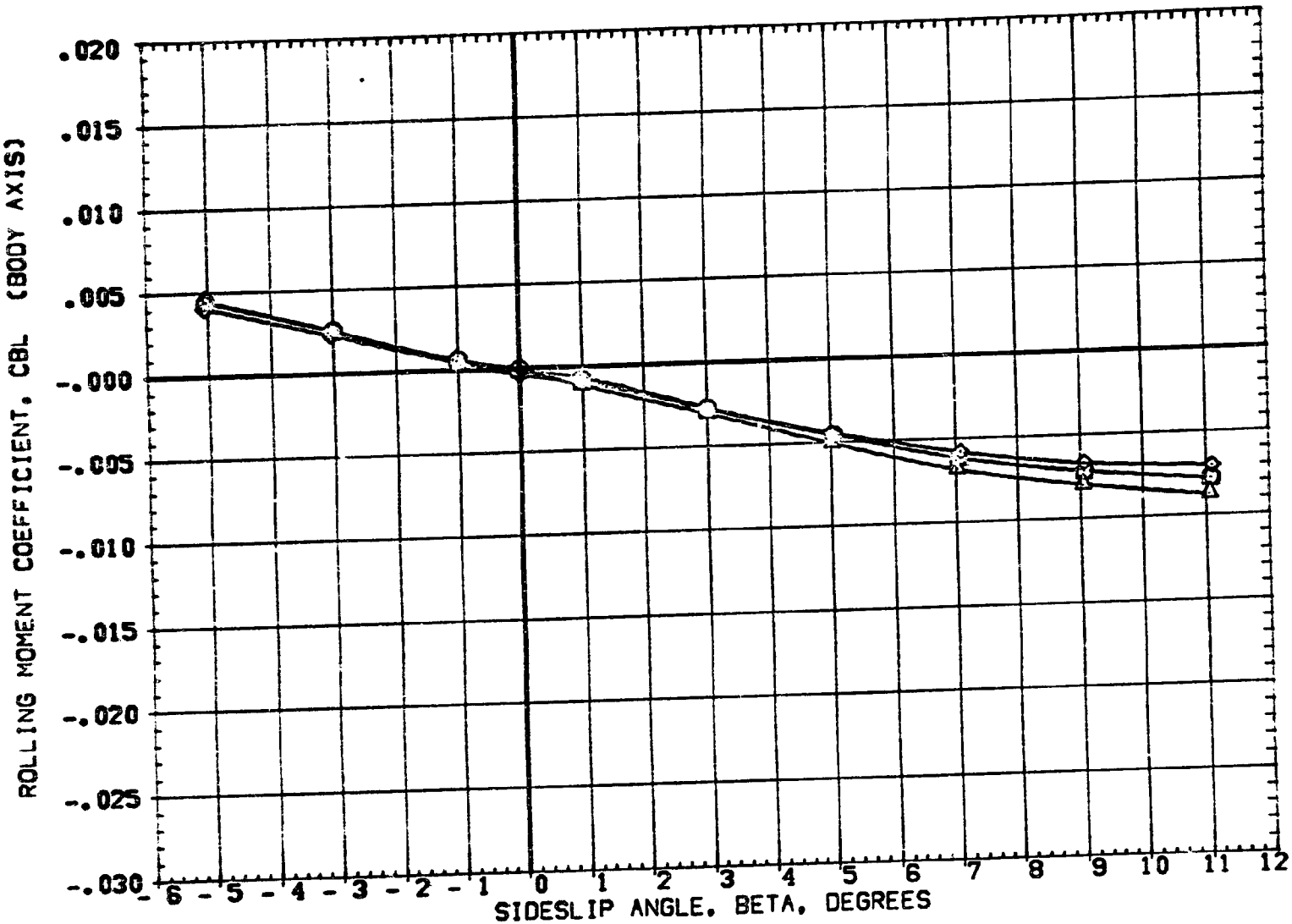


FIG. 20 EFFECT OF MAH AND CANOPY, ALPHA= 5 DEG.

(A)MACH = 0.26

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	ALPHA	B2FLAP
(BDF389)	○	33V-ATP ORBITER B2M1F1W2V3R2	10.000	0.000
(BDF392)	☆	33V-ATP ORBITER B2C2M1F1W2V3R2	10.000	0.000
(BDF067)	◇	33V-ATP ORBITER B2C2D2M1F1W2V3R2	10.000	0.000

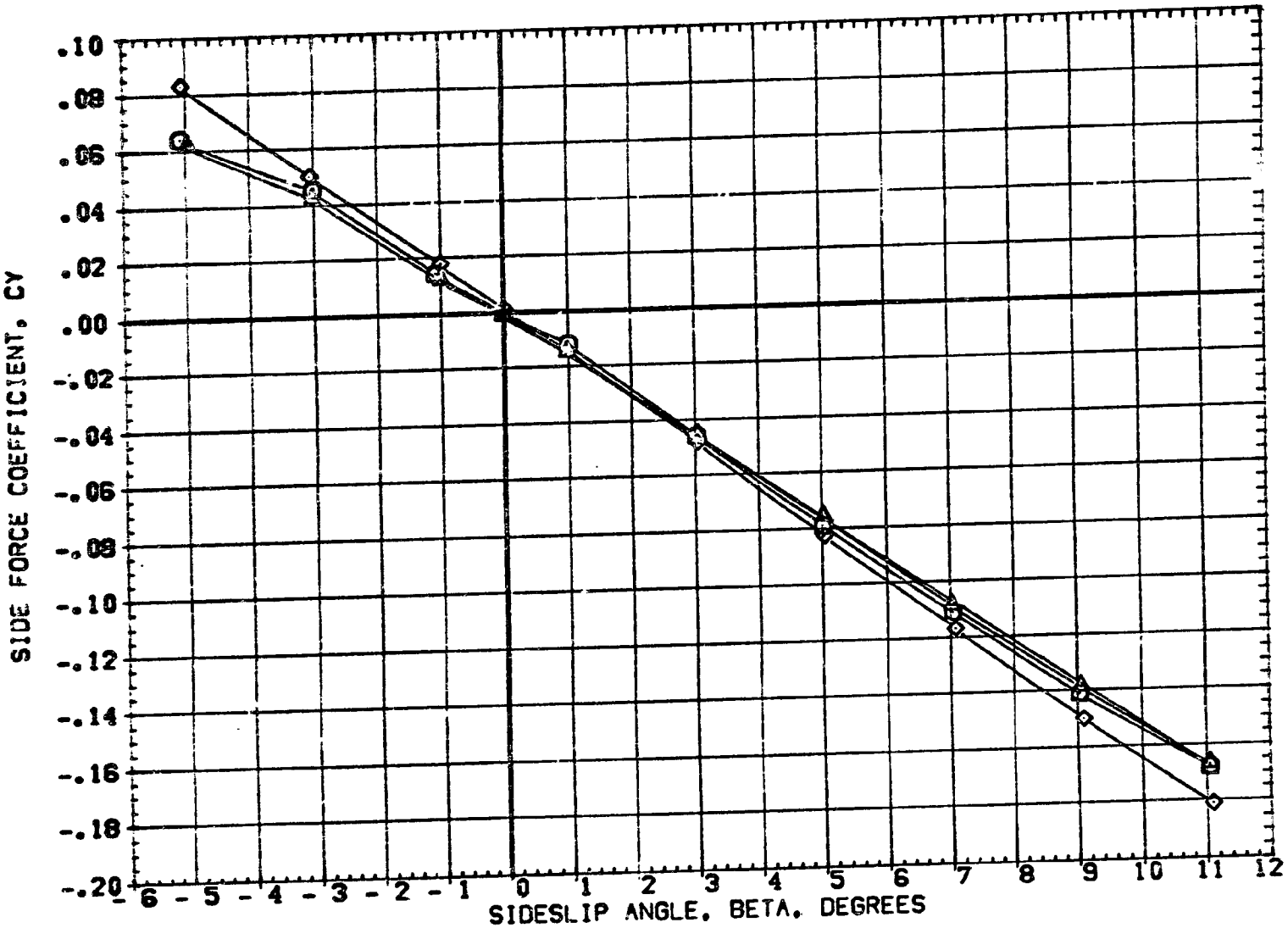


FIG. 21 EFFECT OF MAH AND CANOPY, ALPHA= 10 DEG.

(A)MACH = 0.26

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	ALPHA	B2FLAP
(BDF099)	□	SSV-ATP ORBITER B2H2F1W2V3R2	10.000	0.000
(BDF092)	△	SSV-ATP ORBITER B2C2H1F1W2V3R2	10.000	0.000
(BDF067)	◇	SSV-ATP ORBITER B2C2D2H1F1W2V3R2	10.000	0.000

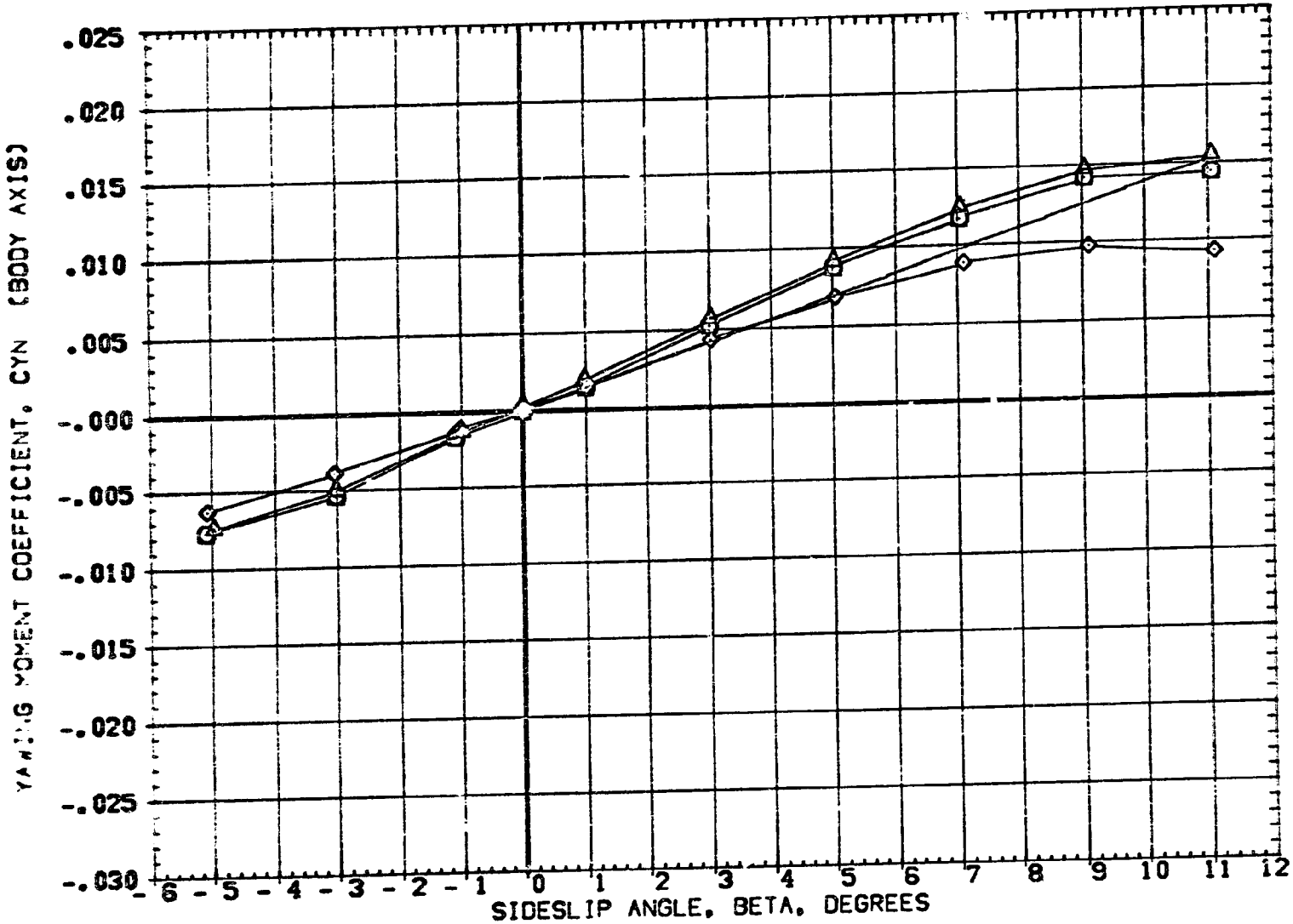


FIG. 21 EFFECT OF MAH AND CANOPY, ALPHA= 10 DEG.

(A)MACH = 0.26

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	ALPHA	B2FLAP
(BDF099)	○	SSV-ATP ORBITER B2H1F1W2V3R2	10.000	0.000
(BDF092)	△	SSV-ATP ORBITER B2C2H1F1W2V3R2	10.000	0.000
(BDF087)	◇	SSV-ATP ORBITER B2C2D2H1F1W2V3R2	10.000	0.000

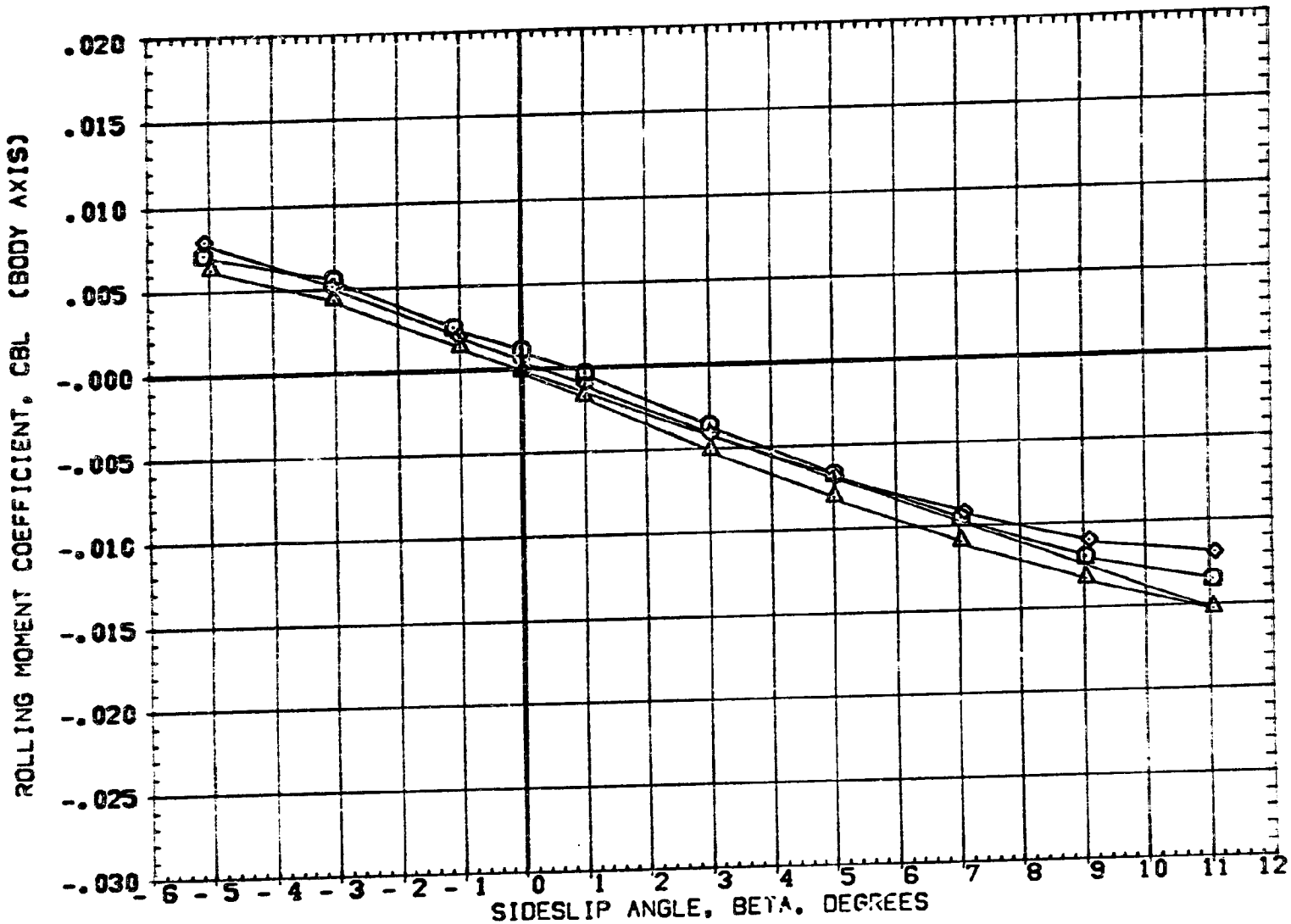


FIG. 21 EFFECT OF MAH AND CANOPY, ALPHA= 10 DEG.

(A)MACH = 0.26

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ALPHA	B2FLAP
(EDF100)	SSV-ATP ORBITER B2M1F1W2V3R2	15.000	0.000
(EDF093)	SSV-ATP ORBITER B2C2M1F1W2V3R2	15.000	0.000
(EDF086)	SSV-ATP ORBITER B2C2D2M1F1W2V3R2	15.000	0.000

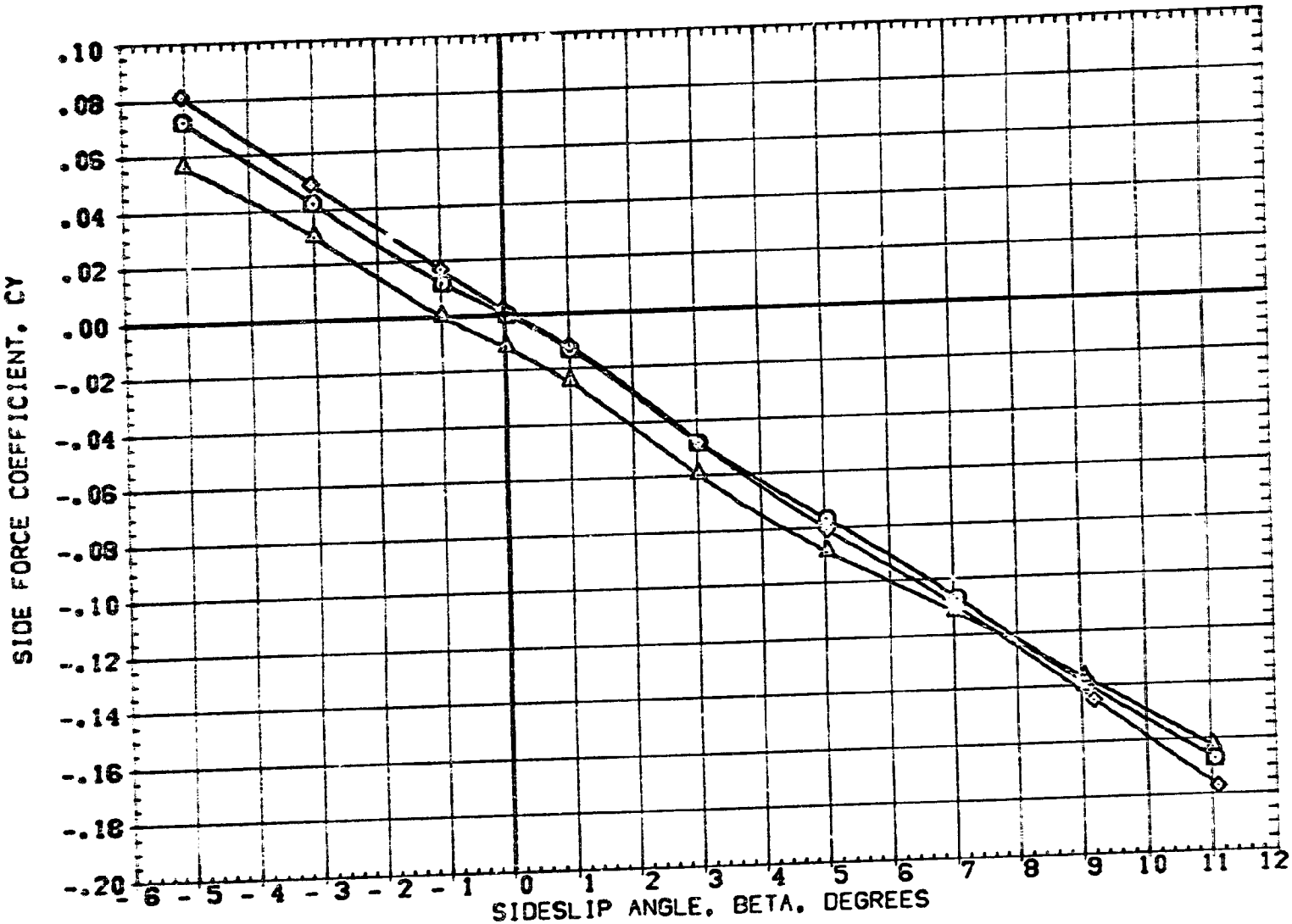


FIG. 22 EFFECT OF MAH AND CANOPY, ALPHA= 15 DEG.

(A)MACH = 0.26

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	ALPHA	B2FLAP
(SDF100)	○	SSV-ATP ORBITER B2M1F1W2V3K2	15.000	0.000
(SDF093)	△	SSV-ATP ORBITER B2C2M1F1W2V3K2	15.000	0.000
(SDF089)	◇	SSV-ATP ORBITER B2C2D2M1F1W2V3K2	15.000	0.000

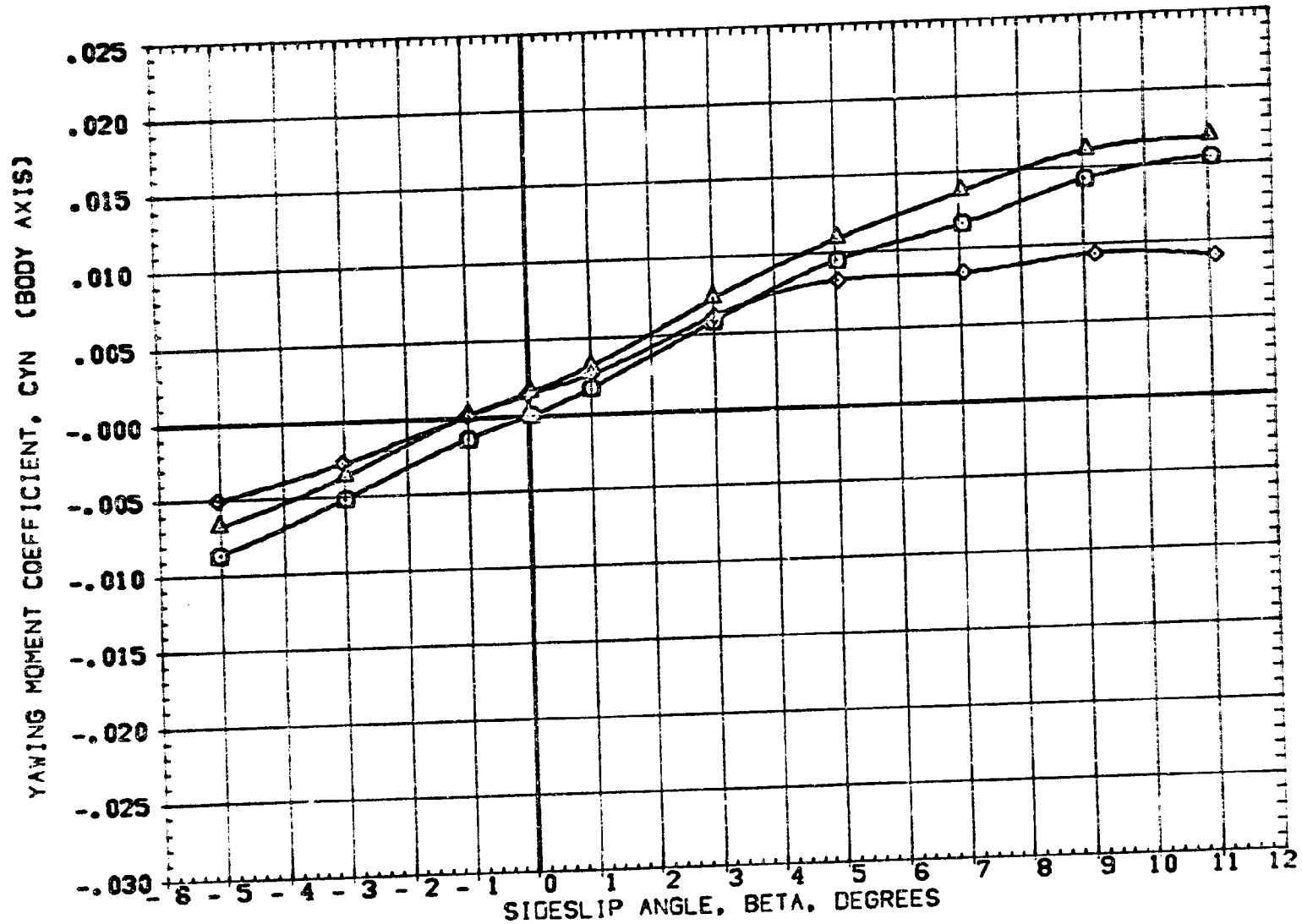


FIG. 22 EFFECT OF MAH AND CANOPY, ALPHA= 15 DEG.

(A)MACH = 0.26

(BDF100) ○ 33V-ATP ORBITER [illegible] 15.000 0.000
(BDF093) □ 33V-ATP ORBITER B2C2H1F1W2V3K2 15.000 0.000
(BDF080) ◇ 33V-ATP ORBITER B2C2D2H1F1W2V3K2

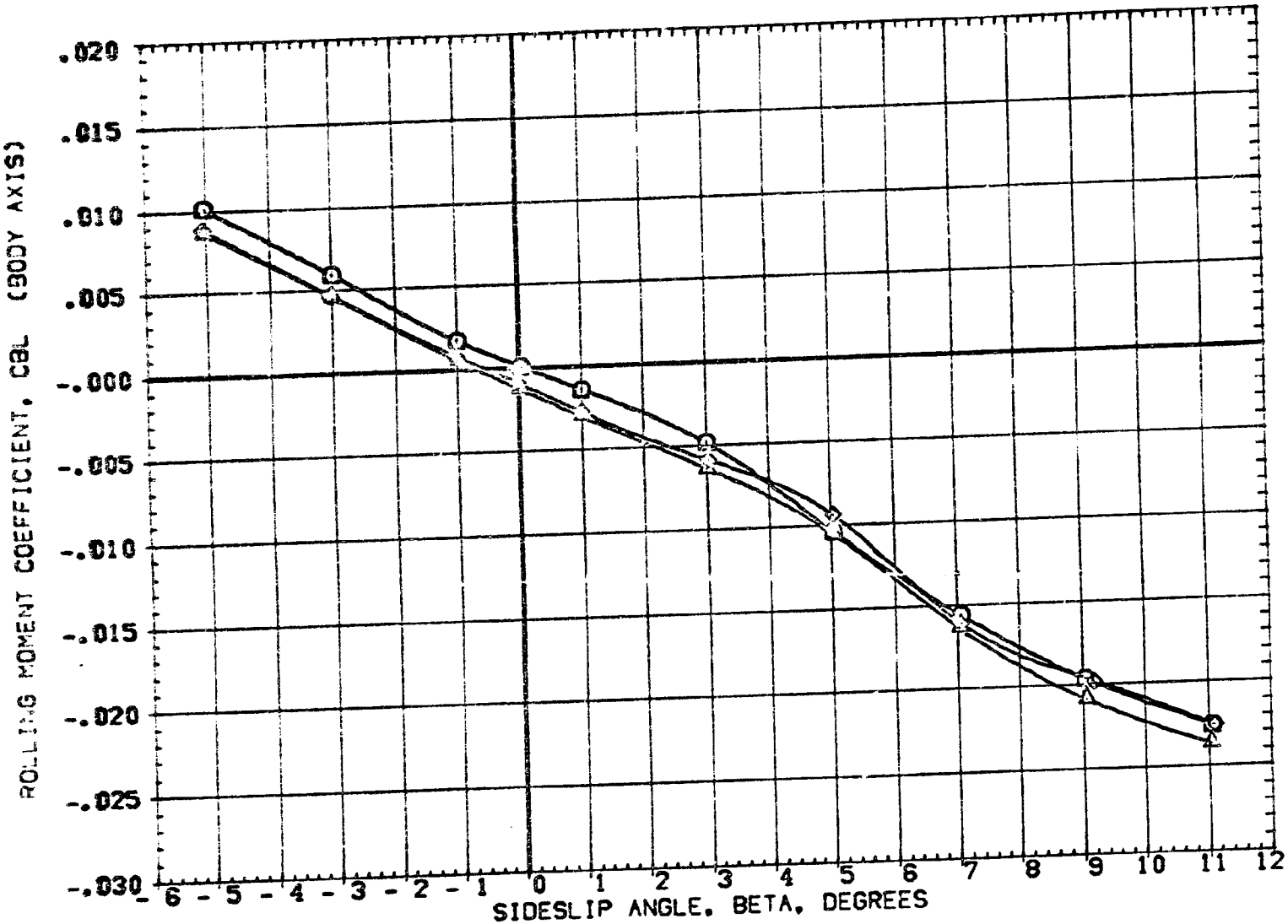


FIG. 22 EFFECT OF MAH AND CANOPY, ALPHA= 15 DEG.

(A)MACH = 0.26

REPRODUCIBILITY OF THE ORIGINAL PAGE IS POOR.

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	ALPHA	B2FLAP
(BDF101)	○	SSV-ATP ORBITER B2M1F1W2V3K2	18.000	0.000
(BDF094)	△	SSV-ATP ORBITER B2C2M1F1W2V3K2	18.000	0.000
(BDF069)	◇	SSV-ATP ORBITER B2C2D2M1F1W2V3K2	18.000	0.000

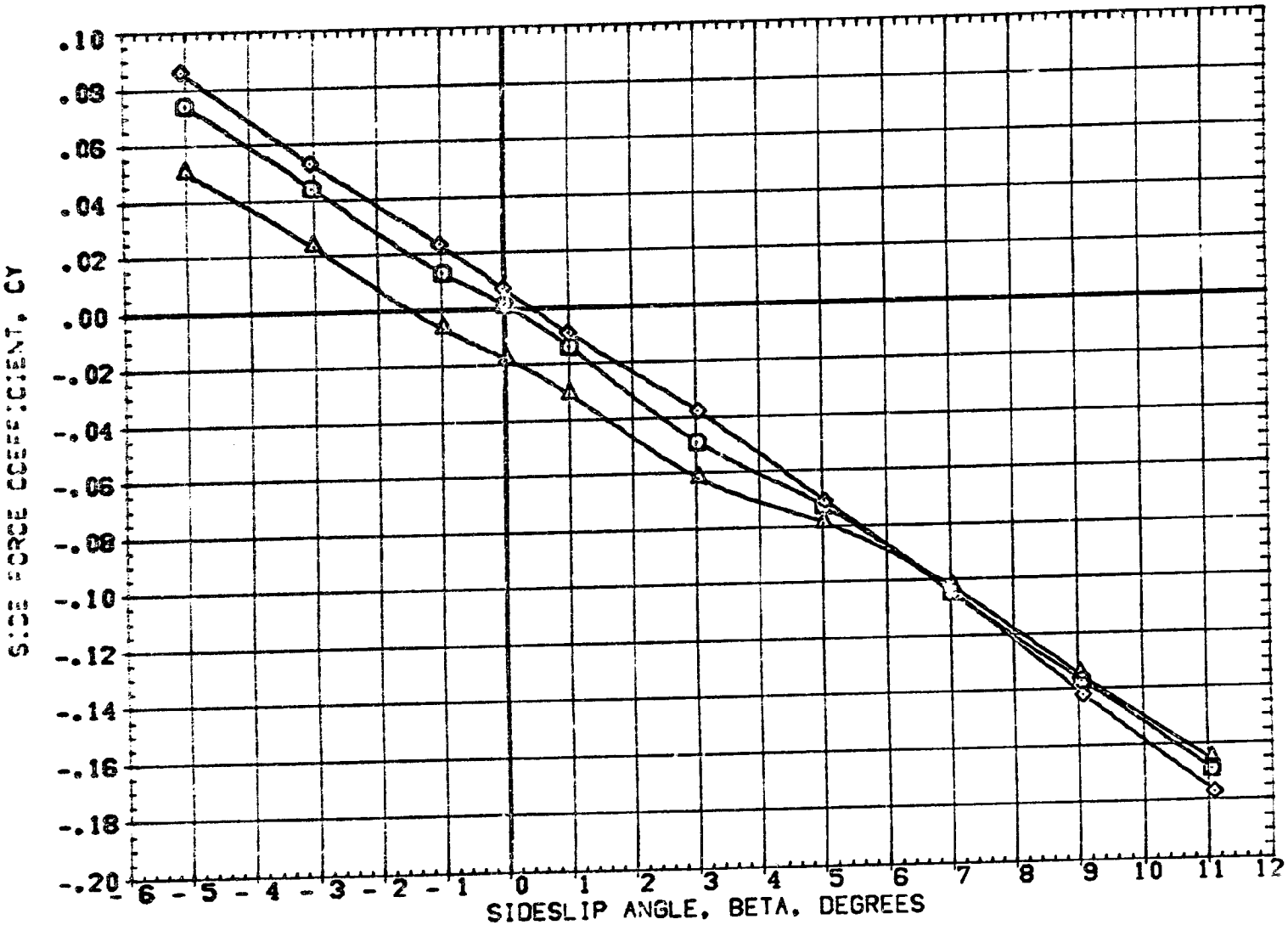


FIG. 23 EFFECT OF MAH AND CANOPY, ALPHA= 18 DEG.

(A)MACH = 0.26

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ALPHA	B2FLAP
(BDF101)	SSV-ATP ORBITER B2M1F1W2V3R2	18.000	0.000
(BDF094)	SSV-ATP ORBITER B2C2M1F1W2V3R2	18.000	0.000
(BDF069)	SSV-AYP ORBITER B2C2D2M1F1W2V3R2	18.000	0.000

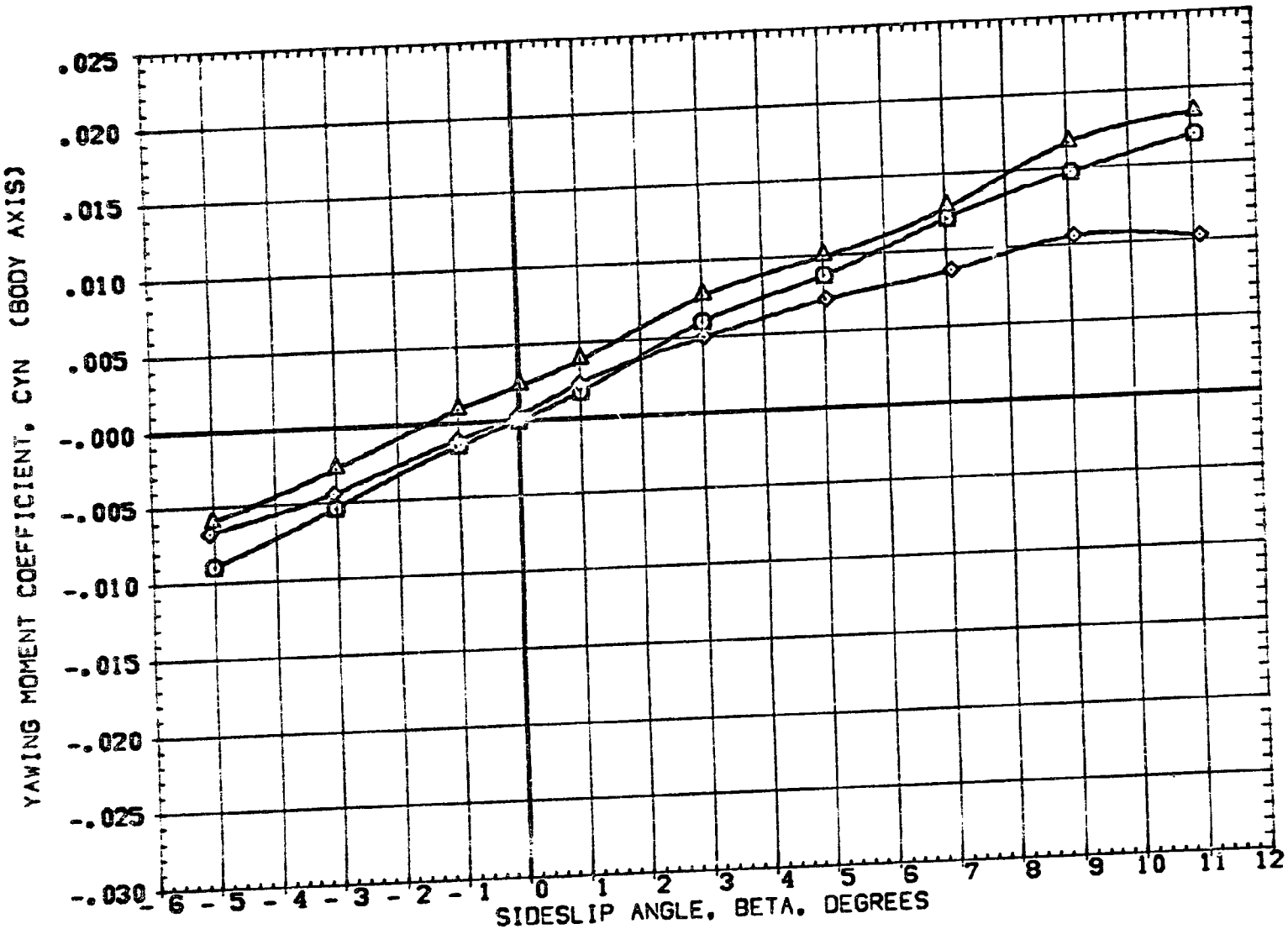


FIG. 23 EFFECT OF MAH AND CANOPY, ALPHA= 18 DEG.

(A)MACH = 0.26

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ALPHA	B2FLAP
(80F131)	SSV-ATP ORBITER B2M1P1L2V3R2	18.000	0.000
(80F094)	SSV-ATP ORBITER B2C2M1F1W2V3R2	18.000	0.000
(80F069)	SSV-ATP ORBITER B2C2D2M1F1W2V3R2	18.000	-0.000

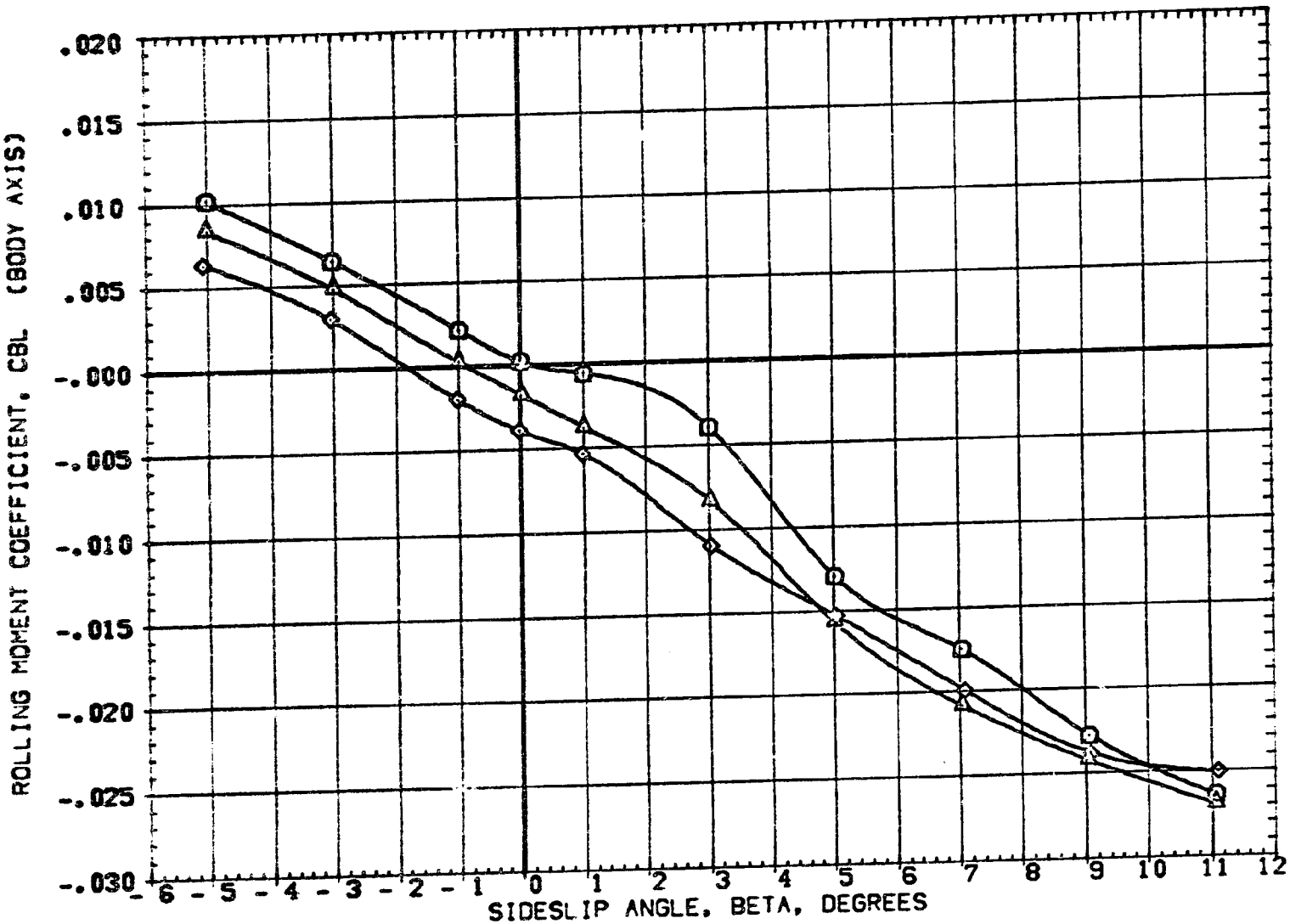


FIG. 23 EFFECT OF MAH AND CANOPY, ALPHA= 18 DEG.

(A)MACH = 0.26

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(EDP102)	○	SSV-ATP ORBITER B2M1F1W2V3R2
(EDP099)	△	SSV-ATP ORBITER B2C2M1F1W2V3R2
(EDP070)	◇	SSV-ATP ORBITER B2C2D2M1F1W2V3R2

ALPHA	BETA
20.000	0.000
20.000	0.000
20.000	0.000

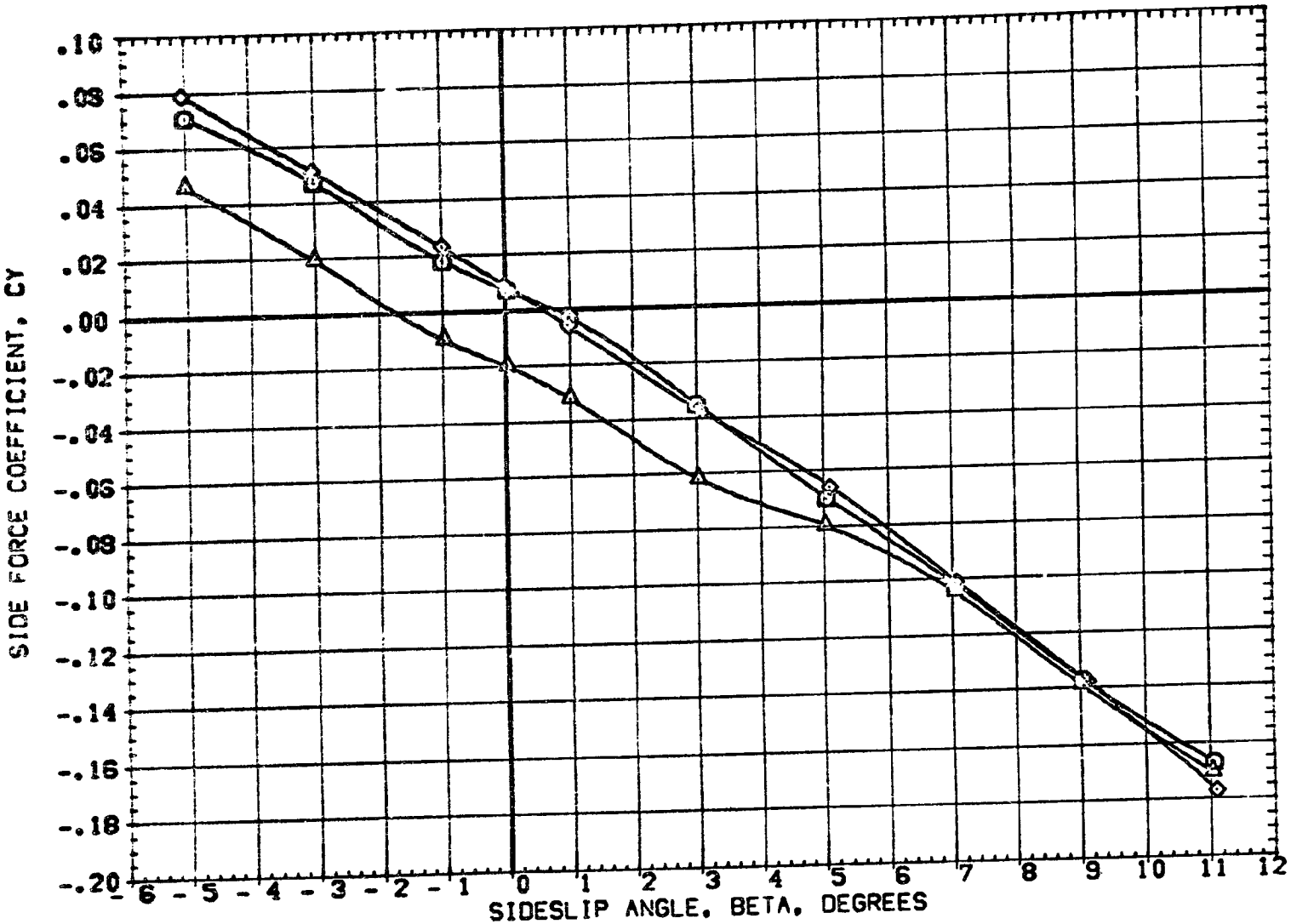


FIG. 24 EFFECT OF MAH AND CANOPY, ALPHA= 20 DEG.

(A)MACH = 0.26

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	ALPHA	B2FLAP
(80F102)	○	SSV-ATP ORBITER B2H1F1W2V3K2	20.000	0.000
(80F099)	△	SSV-ATP ORBITER B2C2H1F1W2V3K2	20.000	0.000
(80F070)	◇	SSV-ATP ORBITER B2C2D2H1F1W2V3K2	20.000	0.000

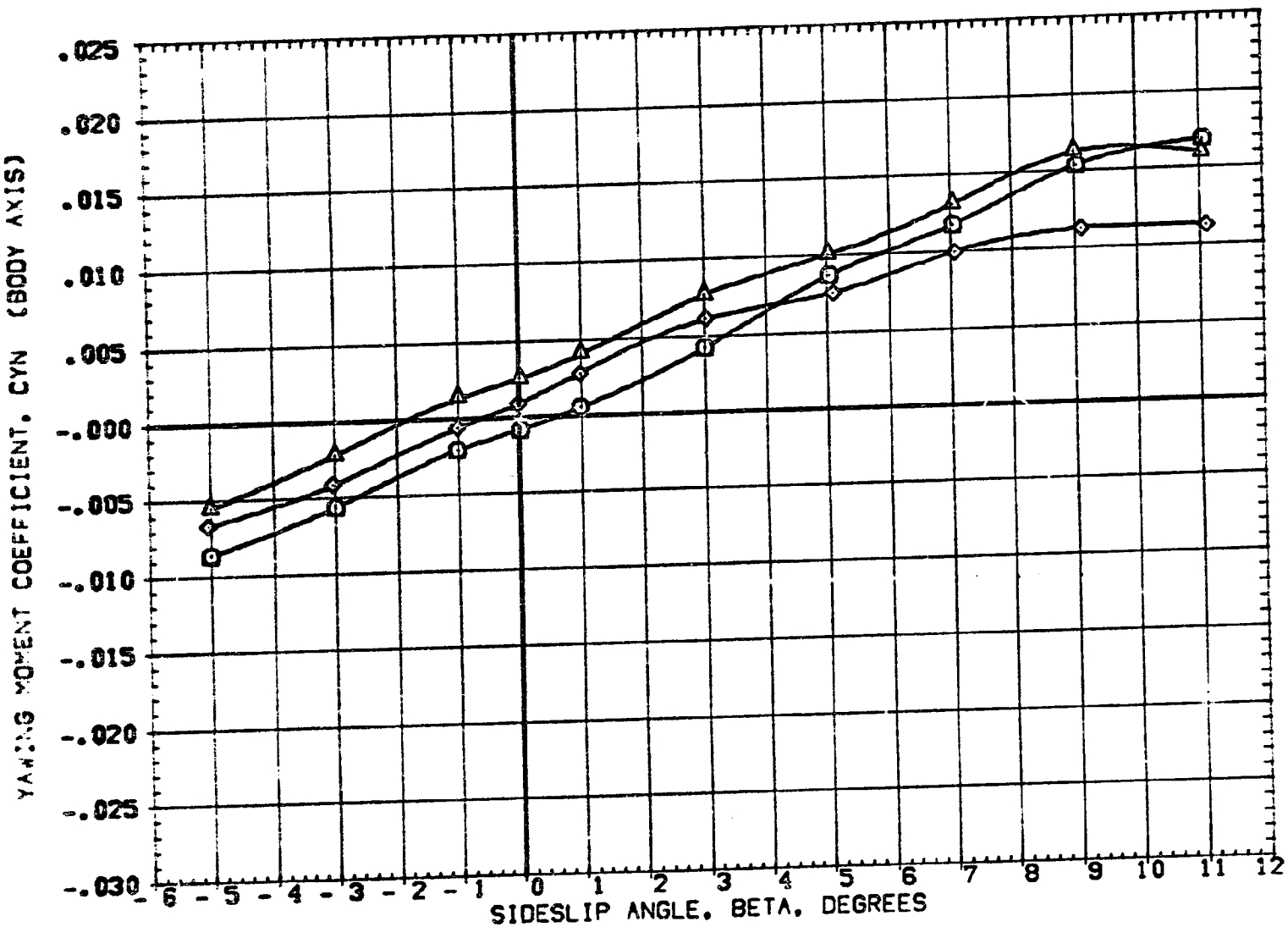


FIG. 24 EFFECT OF MAH AND CANOPY, ALPHA= 20 DEG.

(A)MACH = 0.26

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	ALPHA	B2FLAP
(BDP102)		SSV-ATP ORBITER B2H1F1W2V3R2	20.000	0.000
(BDP093)		SSV-ATP ORBITER B2C2H1F1W2V3R2	20.000	0.000
(BDP070)		SSV-ATP ORBITER B2C2D2H1F1W2V3R2	20.000	0.000

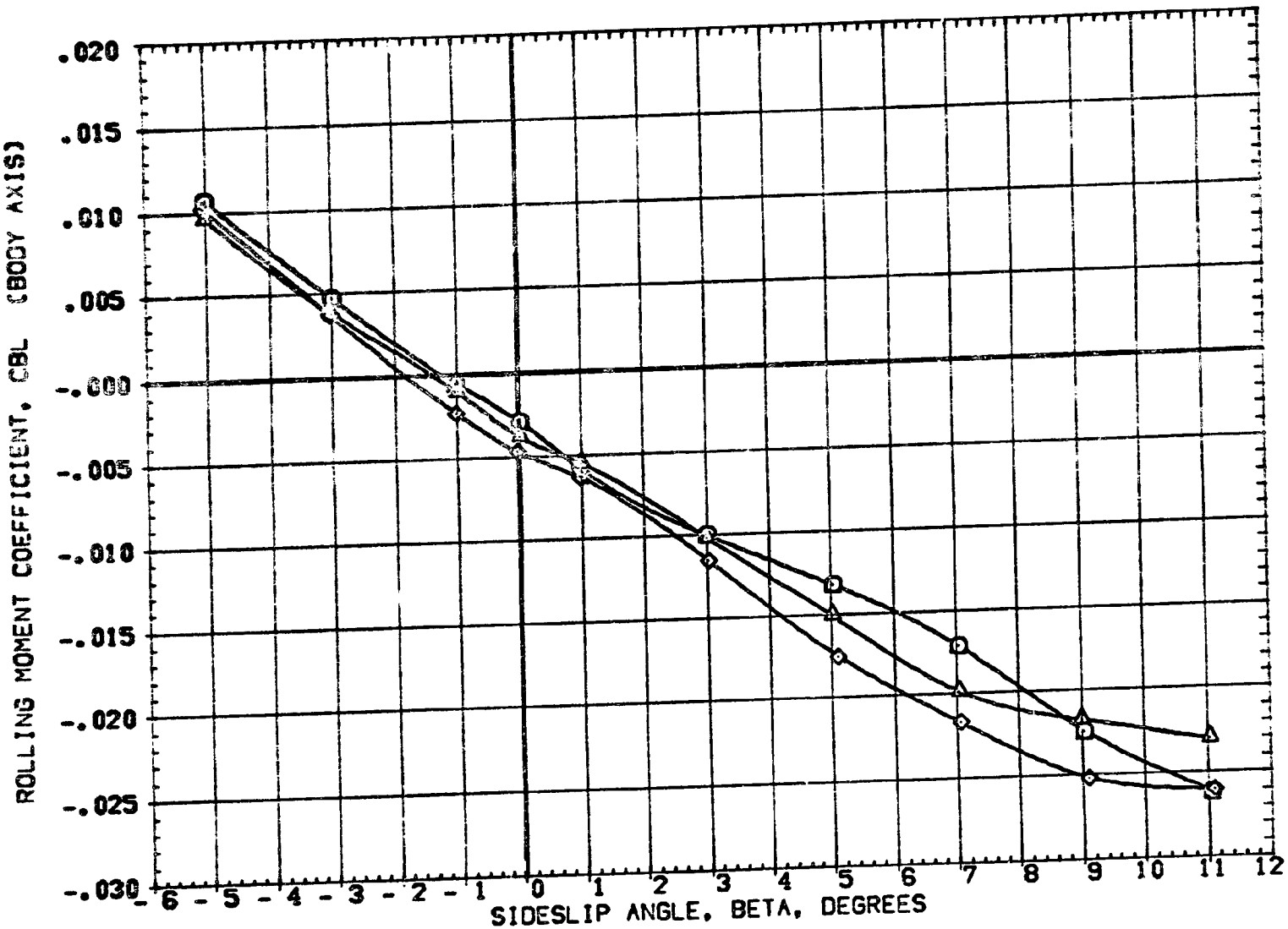


FIG. 24 EFFECT OF MAH AND CANOPY, ALPHA= 20 DEG.

(A)MACH = 0.26

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	BETA	B2FLAP
(ADF028)	○	SSV-ATP ORBITER B2C2D2M1	0.000	
(ADF029)	□	SSV-ATP ORBITER B2C2D2M1F1	0.000	0.000
(ADF073)	◇	SSV-ATP ORBITER B2C2D2M1W2V3K2	0.000	
(ADF064)	▽	SSV-ATP ORBITER B2C2D2M1F1W2V3K2	0.000	0.000
(ADF072)	△	SSV-ATP ORBITER B2C2D2M1F1W2V3K2	0.000	-12.000

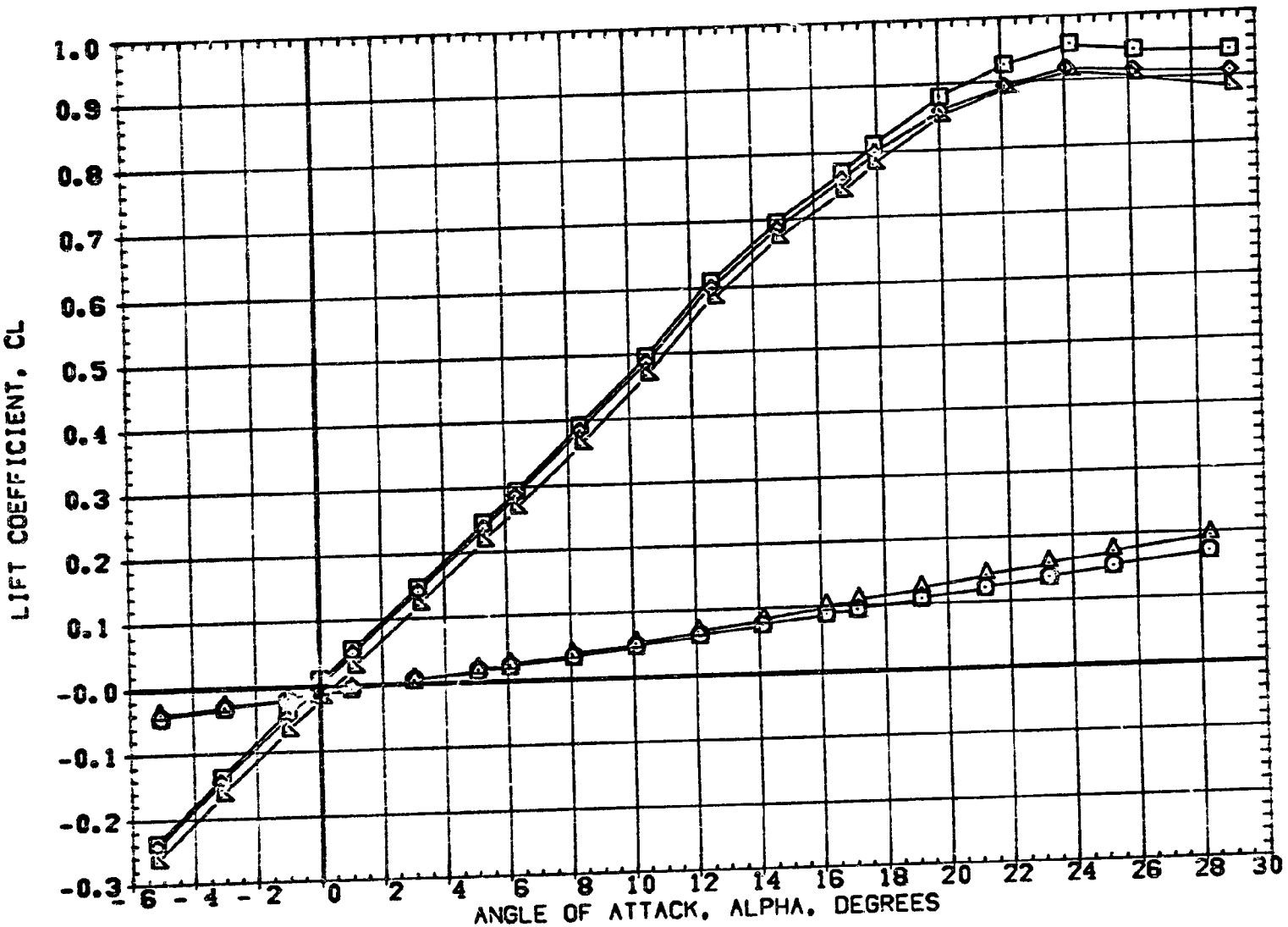


FIG. 25 EFFECT OF BODYFLAP, BETA= 0 DEG.

(A)MACH = 0.26

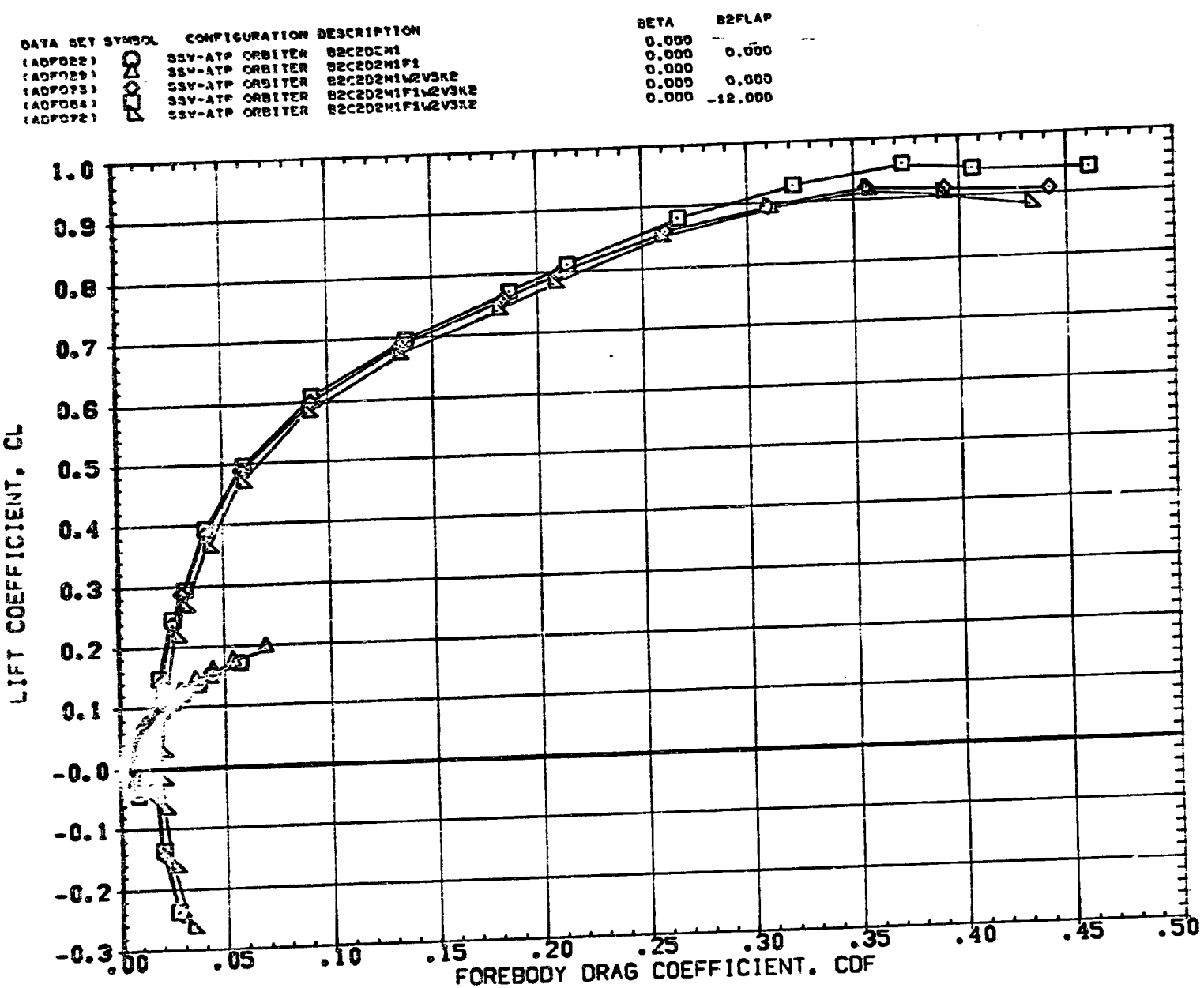


FIG. 25 EFFECT OF BODYFLAP, BETA= 0 DEG.

(A)MACH = 0.26

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	BETA	B2FLAP
(ADF022)		SSV-ATP ORBITER B2C2D2M1	0.000	
(ADF029)		SSV-ATP ORBITER B2C2D2M1F1	0.000	0.000
(ADF073)		SSV-ATP ORBITER B2C2D2M1W2V3R2	0.000	
(ADF084)		SSV-ATP ORBITER B2C2D2M1F1W2V3R2	0.000	0.000
(ADF072)		SSV-ATP ORBITER B2C2D2M1F1W2V3R2	0.000	-12.000

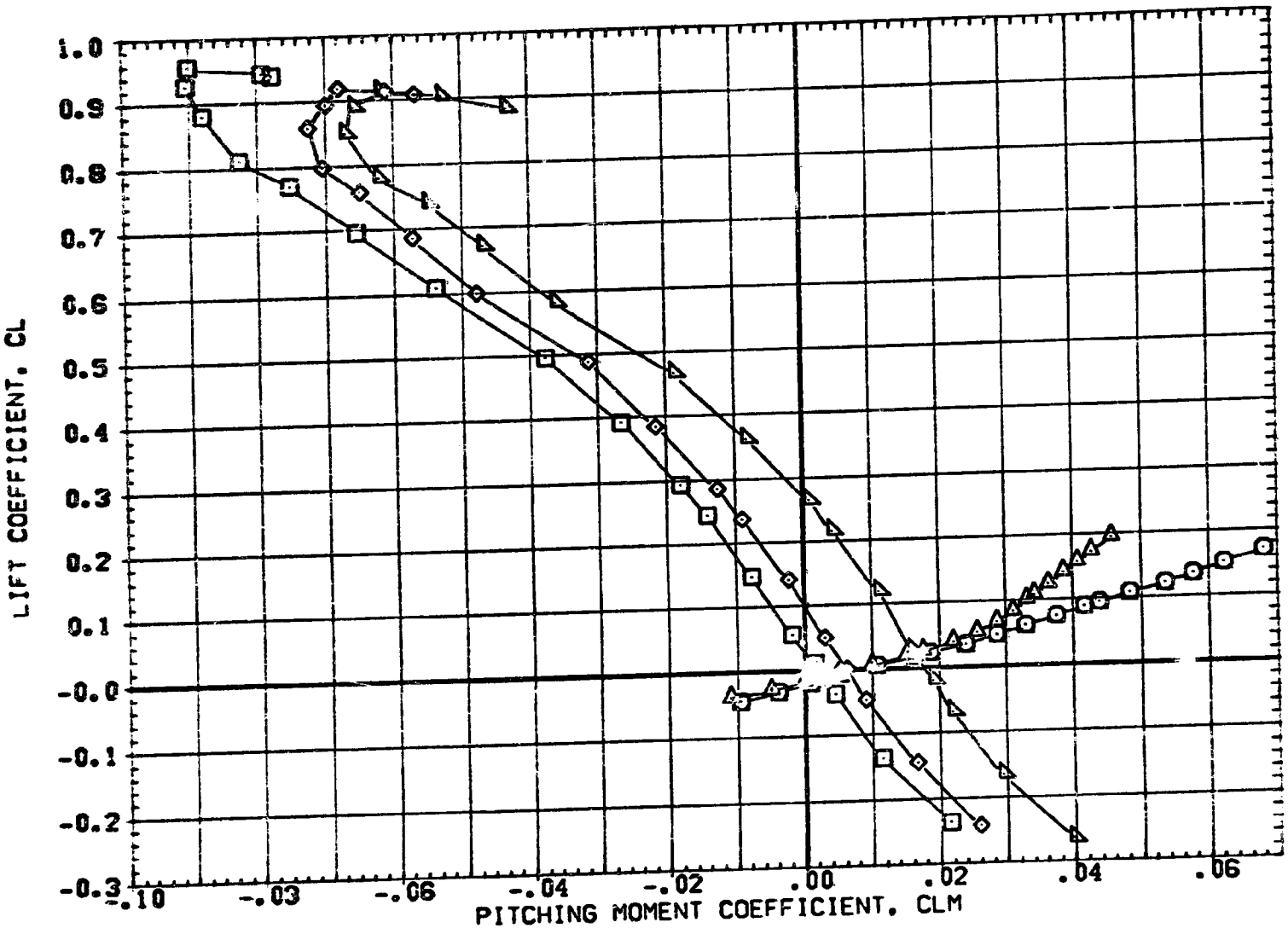


FIG. 25 EFFECT OF BODYFLAP, BETA= 0 DEG.

(A)MACH = 0.26

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	BETA	B2FLAP
(ADF022)	◇	SSV-ATP ORBITER B2C2D2M1	0.000	
(ADF029)	□	SSV-ATP ORBITER B2C2D2M1F1	0.000	0.000
(ADF073)	△	SSV-ATP ORBITER B2C2D2M1W2V3R2	0.000	
(ADF064)	◇	SSV-ATP ORBITER B2C2D2M1F1W2V3R2	0.000	0.000
(ADF072)	△	SSV-ATP ORBITER B2C2D2M1F1W2V3R2	0.000	-12.000

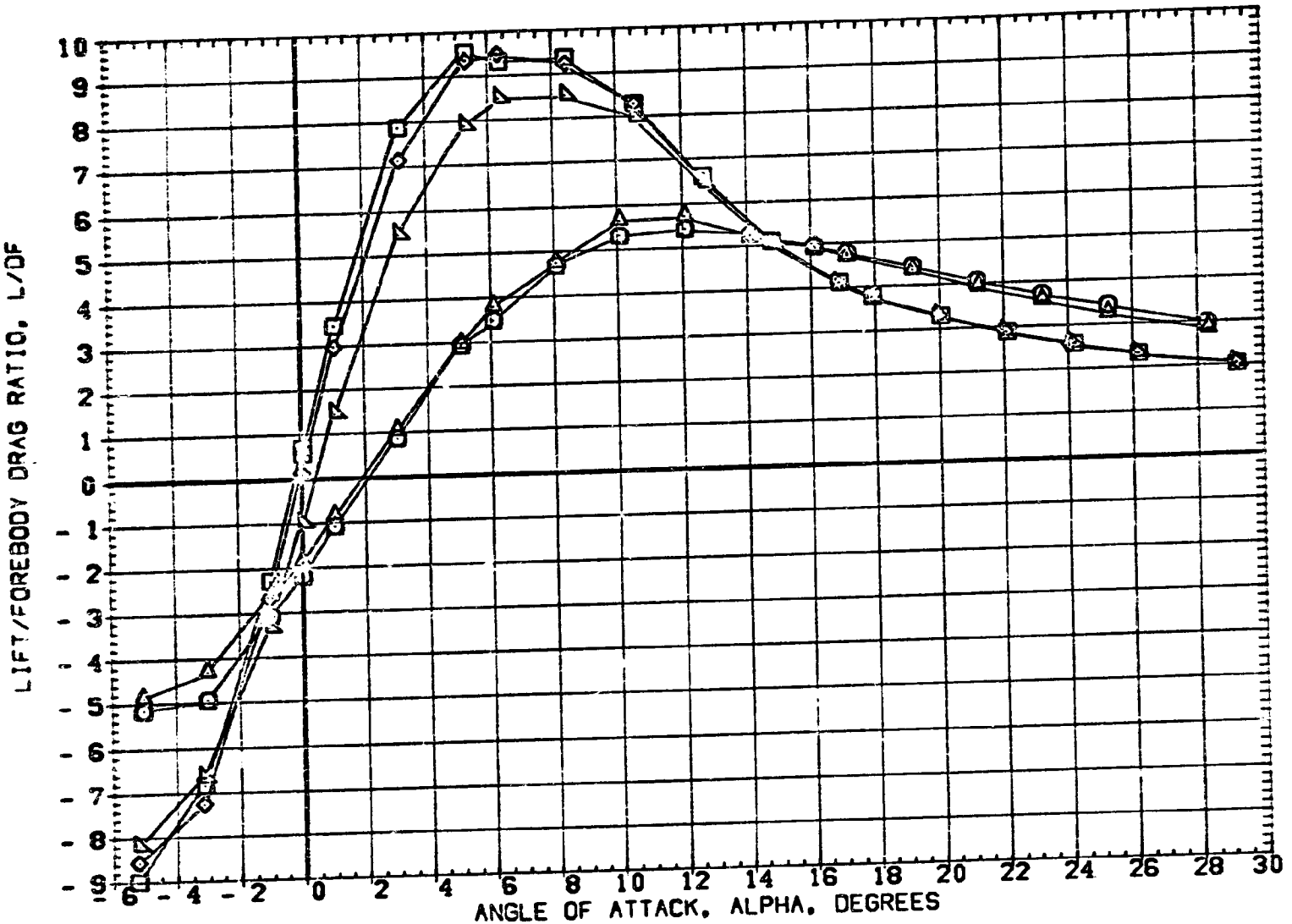


FIG. 25 EFFECT OF BODYFLAP, BETA= 0 DEG.

(A)MACH = 0.26

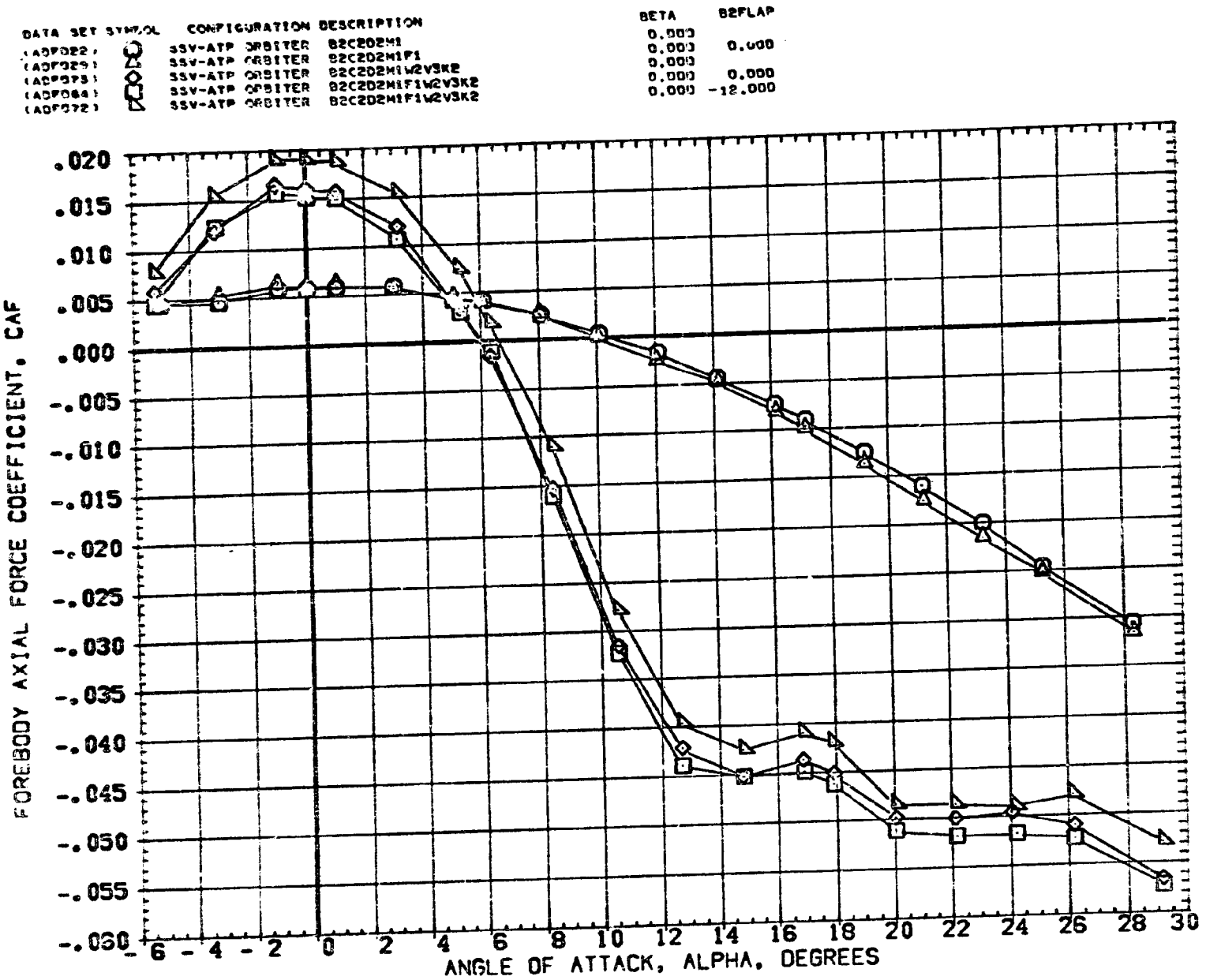


FIG. 25 EFFECT OF BODYFLAP, BETA= 0 DEG.

(A)MACH = 0.26

DATA SET	SYMBOL	CONFIGURATION	DESCRIPTION	BETA	DELTAF
(ADF022)		3SV-ATP	ORBITER B2C2D2M1	0.000	
(ADF023)		3SV-ATP	ORBITER B2C2D2M1F1	0.000	0.000
(ADF073)		3SV-ATP	ORBITER B2C2D2M1W2V3R2	0.000	
(ADF084)		3SV-ATP	ORBITER B2C2D2M1F1W2V3R2	0.000	0.000
(ADF072)		3SV-ATP	ORBITER B2C2D2M1F1W2V3R2	0.000	-12.000

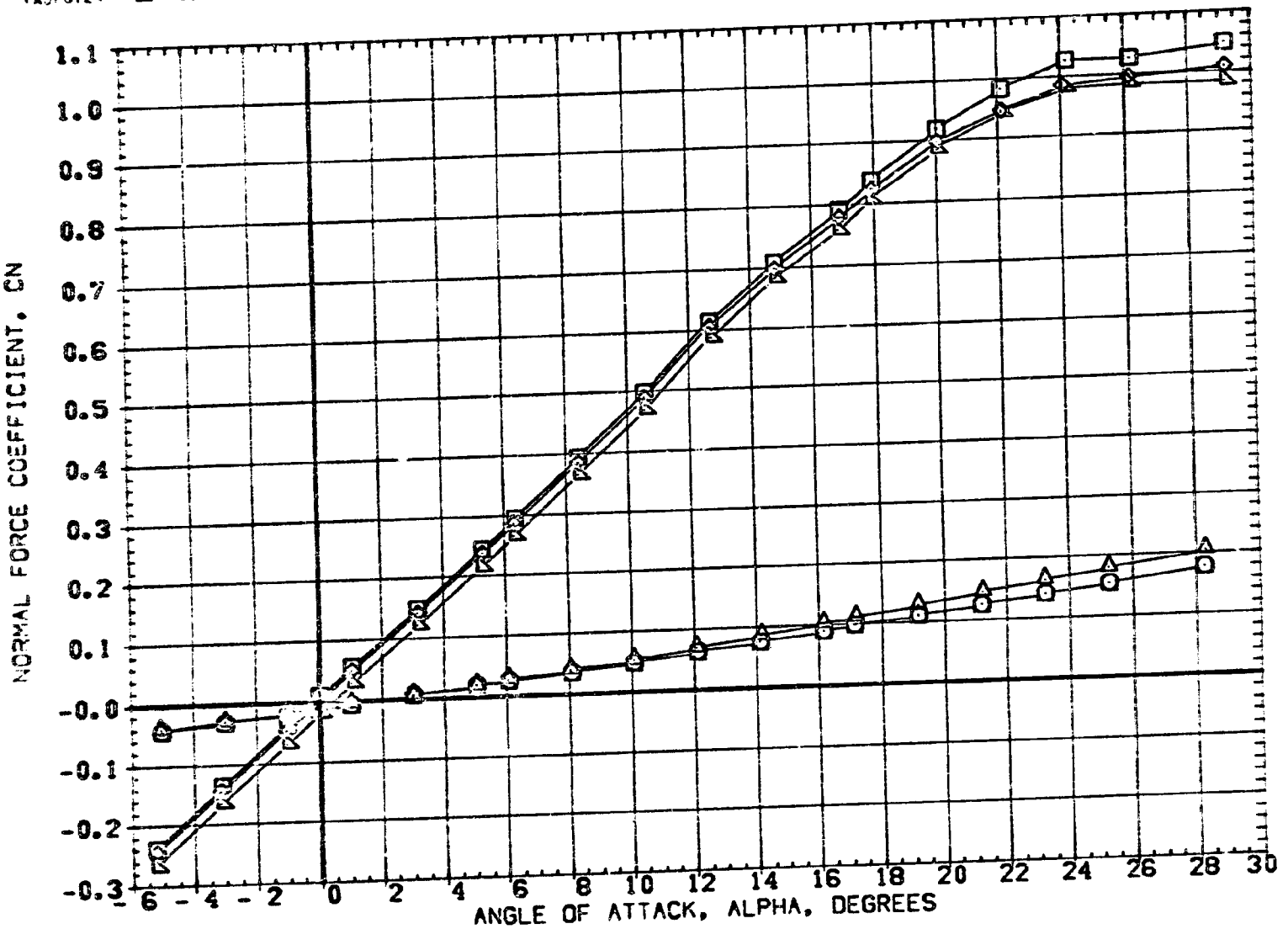


FIG. 25 EFFECT OF BODYFLAP, BETA= 0 DEG.

(A)MACH = 0.26

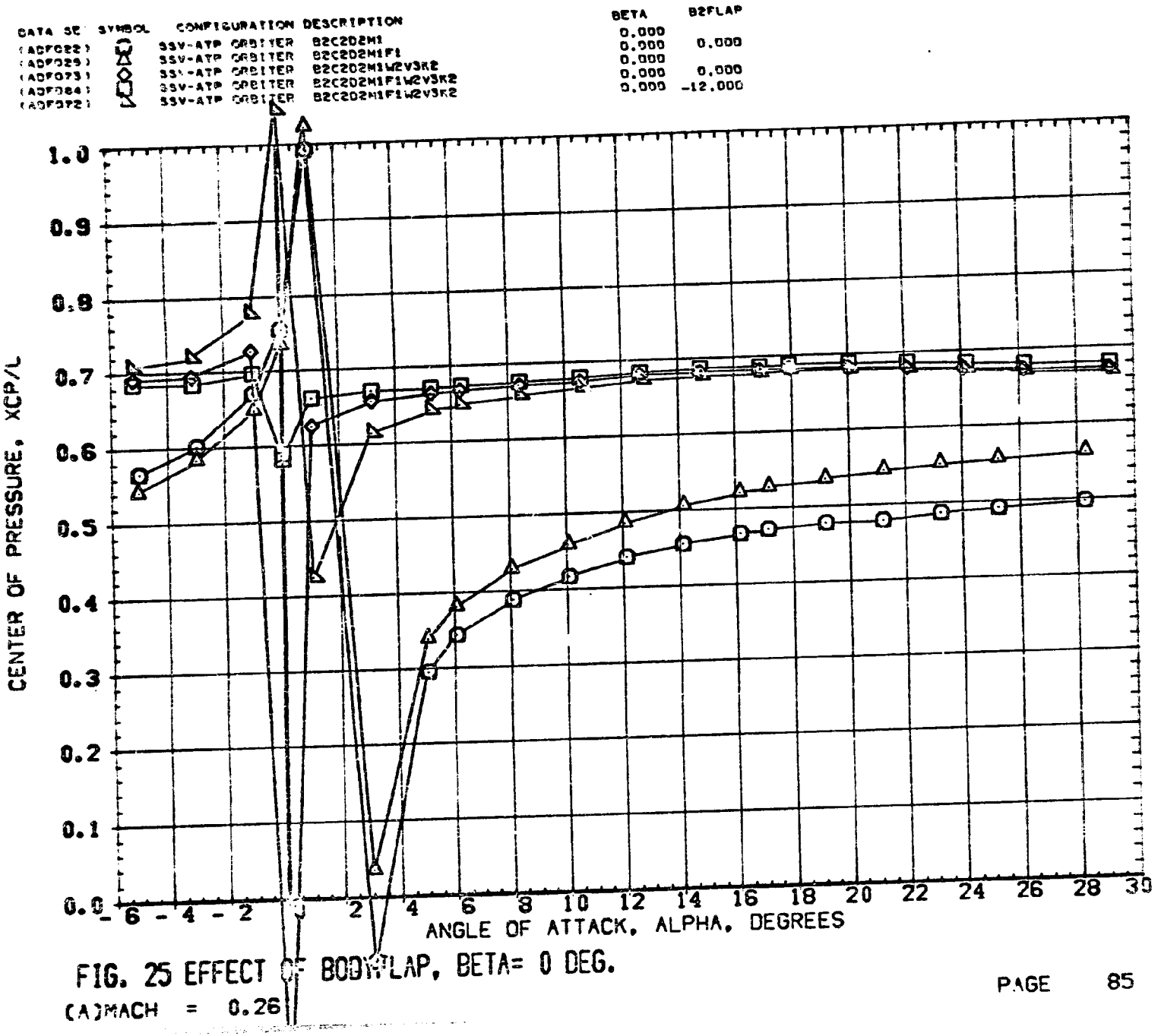


FIG. 25 EFFECT OF BODY FLAP, BETA= 0 DEG.

(A)MACH = 0.26

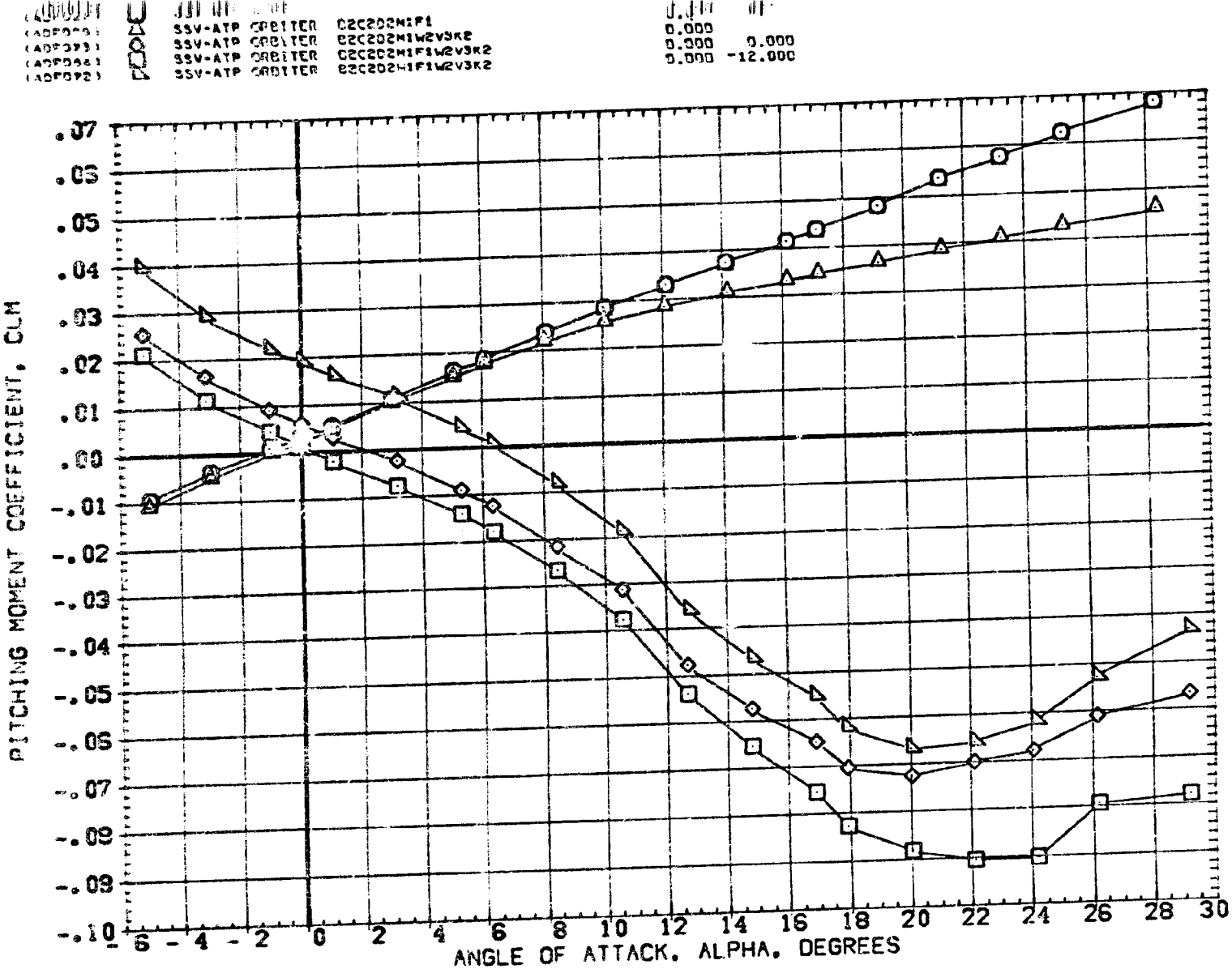


FIG. 25 EFFECT OF BODYFLAP, BETA= 0 DEG.

(A)MACH = 0.26

REPRODUCIBILITY OF THE ORIGINAL PAGE IS POOR

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	ALPHA	B2FLAP
(B0F028)	○	SSV-ATP ORBITER B2C2D2M1	0.000	
(B0F030)	△	SSV-ATP ORBITER B2C2D2M1F1	0.000	0.000
(B0F065)	◇	SSV-ATP ORBITER B2C2D2M1F1W2V3K2	0.000	0.000
(B0F074)	□	SSV-ATP ORBITER B2C2D2M1W2V3K2	0.000	

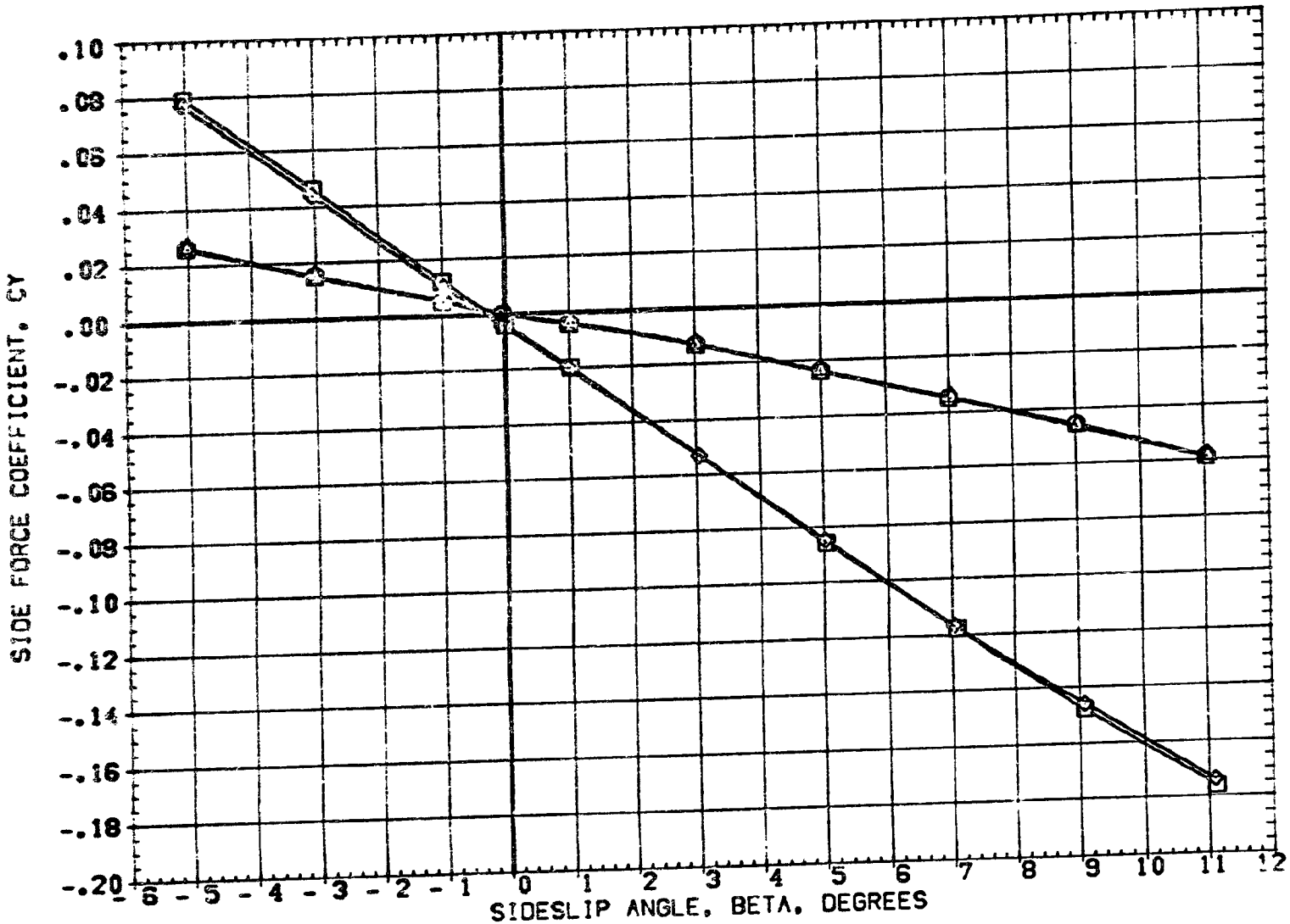


FIG. 26 EFFECT OF BODYFLAP, ALPHA= 0 DEG.

(A)MACH = 0.26

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ALPHA	B2FLAP
(EDF023)	SSV-ATP ORBITER B2C2D2H1	0.000	
(EDF039)	SSV-ATP ORBITER B2C2D2H1F1	0.000	0.000
(EDF065)	SSV-ATP ORBITER B2C2D2H1F1W2V3K2	0.000	0.000
(EDF074)	SSV-ATP ORBITER B2C2D2H1W2V3K2	0.000	

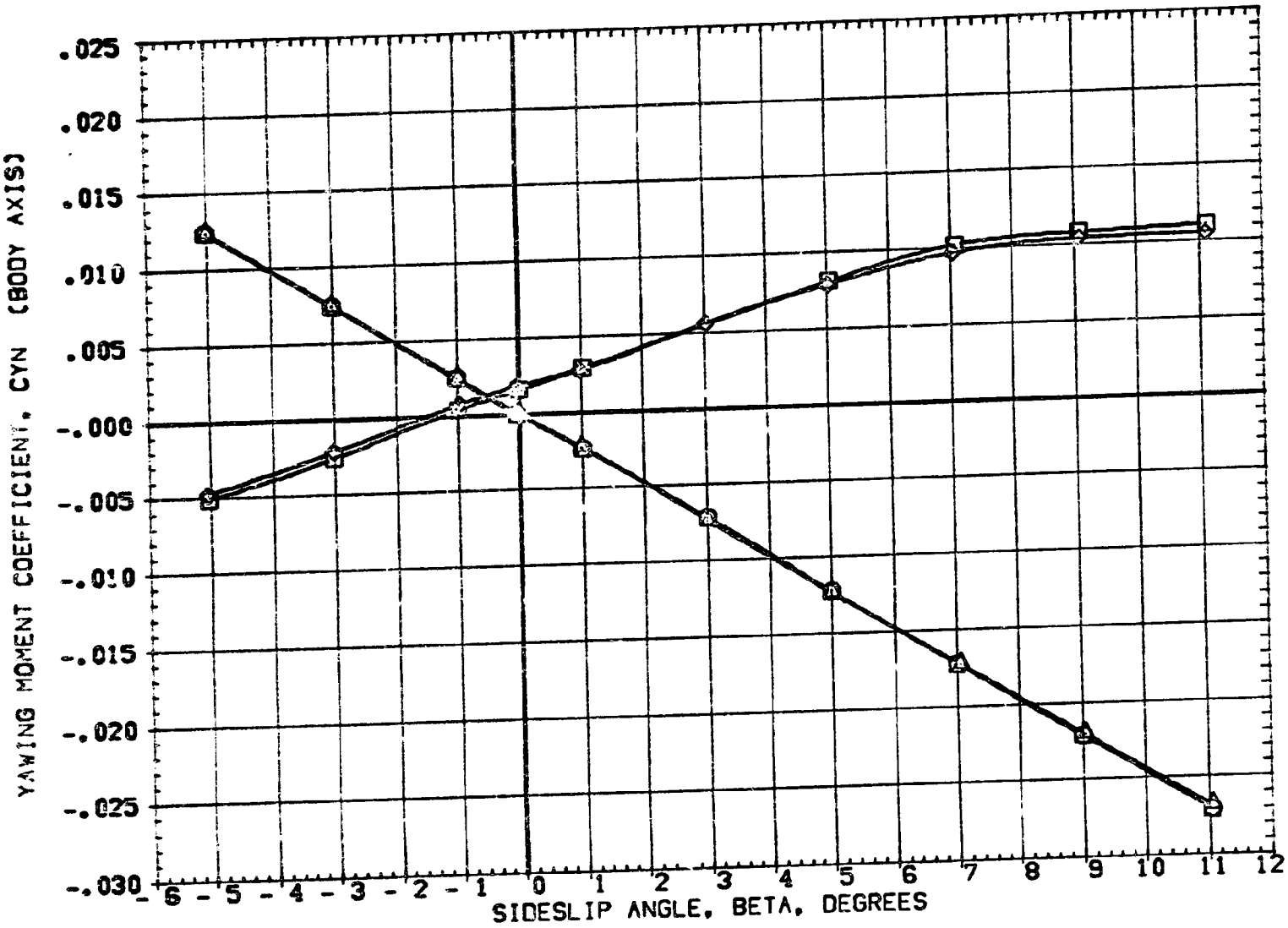


FIG. 26 EFFECT OF BODYFLAP, ALPHA= 0 DEG.

(A)MACH = 0.26

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	ALPHA	B2FLAP
(B2F023)	○	33V-ATP ORBITER B2C2B2EH1	0.000	
(B2F033)	◇	33V-ATP ORBITER B2C2D2H1F1	0.000	0.000
(B2F303)	◇	33V-ATP ORBITER B2C2D2H1F1W2V3K2	0.000	0.000
(B2F3F4)	□	33V-ATP ORBITER B2C2D2H1W2V3K2	0.000	

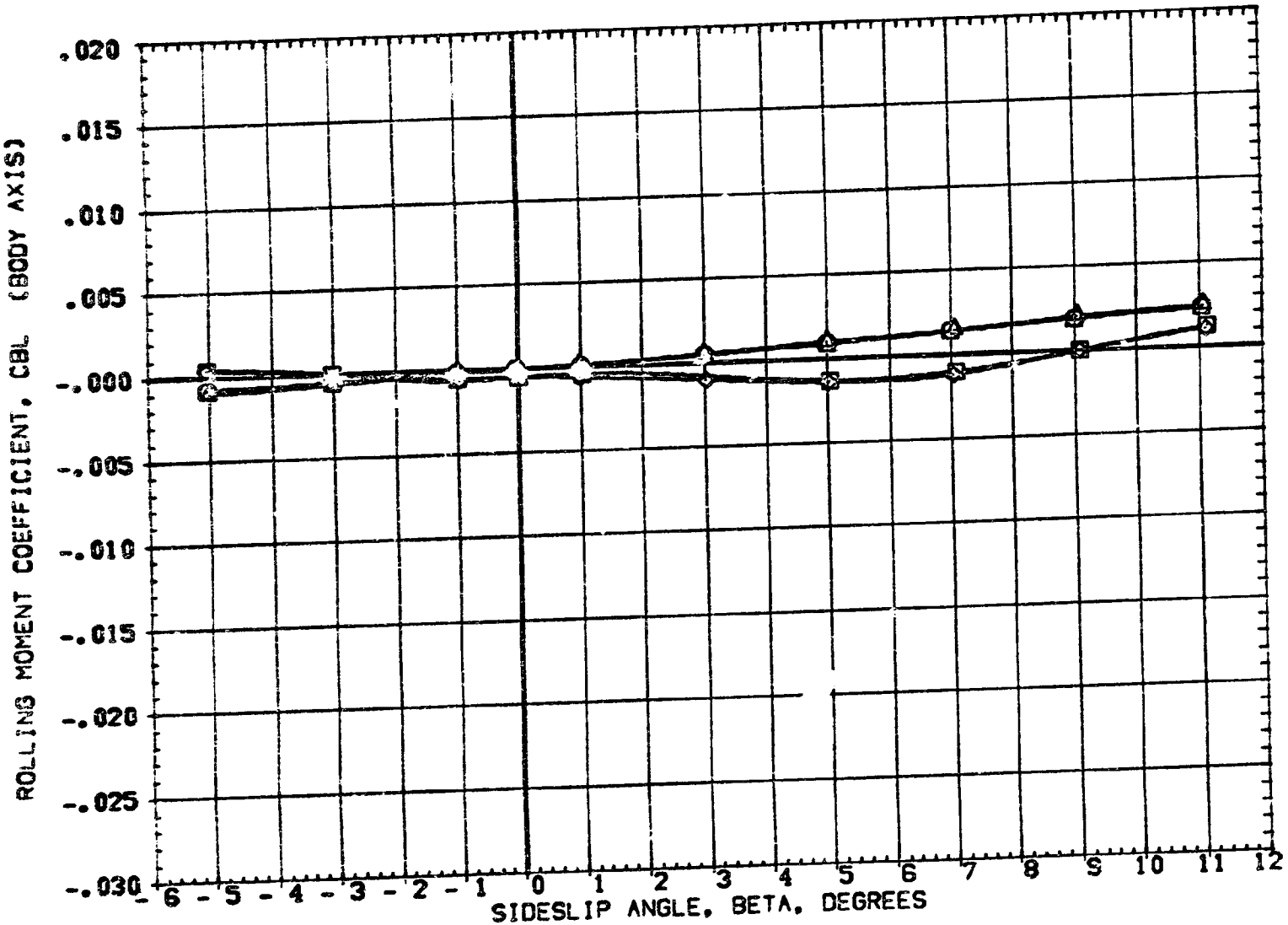


FIG. 26 EFFECT OF BODYFLAP, ALPHA= 0 DEG.

(A)MACH = 0.26

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION			
(BDF024)	○	SSV-ATP ORBITER	B2C2D2H1	5.000	
(BDF031)	△	SSV-ATP ORBITER	B2C2D2H1F1	5.000	0.000
(BDF066)	◇	SSV-ATP ORBITER	B2C2D2H1F1W2V3K2	5.000	0.000
(BDF075)	□	SSV-ATP ORBITER	B2C2D2H1W2V3K2	5.000	

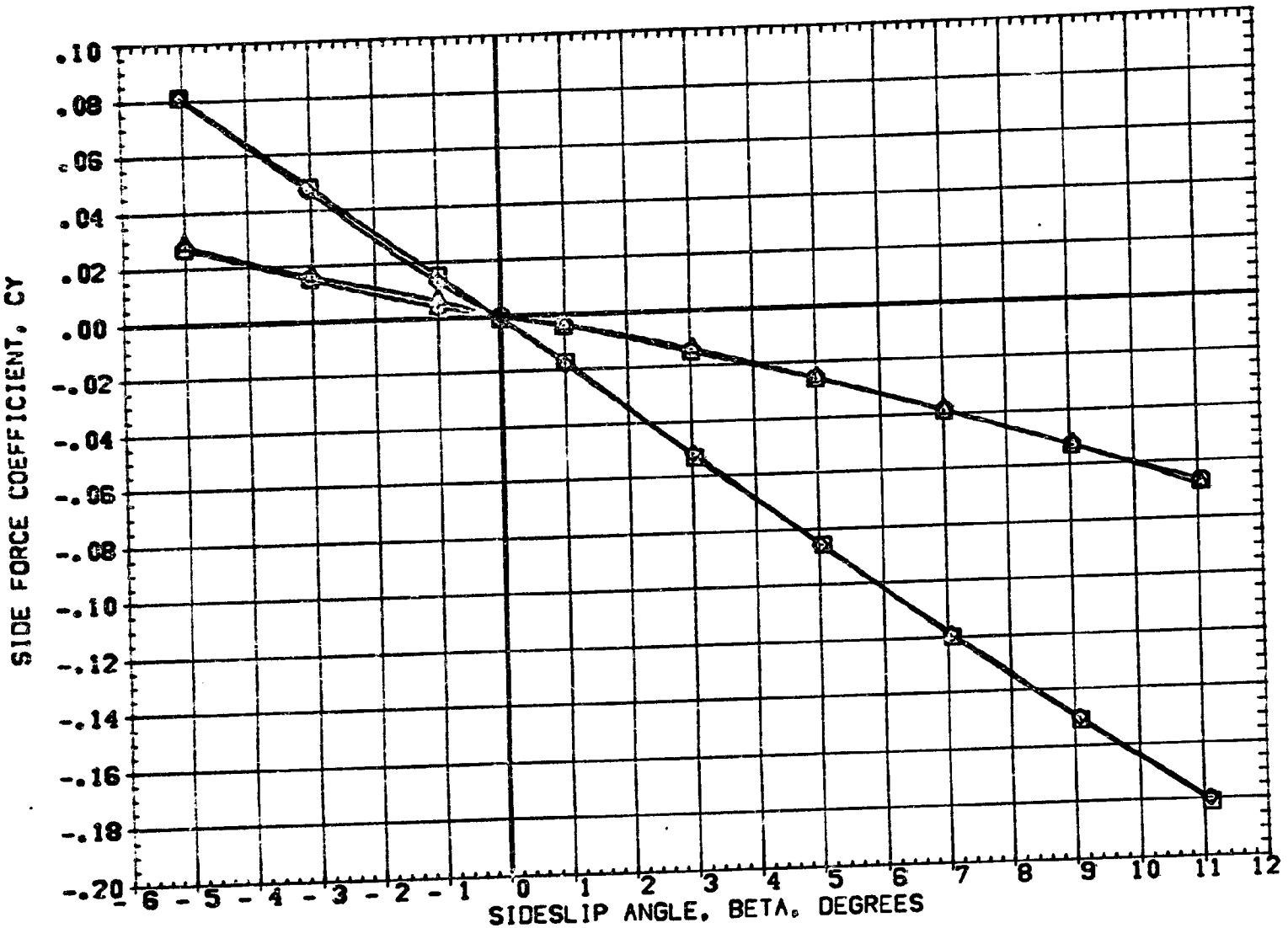


FIG. 27 EFFECT OF BODYFLAP, ALPHA= 5 DEG.

(A)MACH = 0.26

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	ALPHA	B2FLAP
(BDF024)	○	SSV-ATP ORBITER B2C2D2M1	5.000	
(BDF031)	□	SSV-ATP ORBITER B2C2D2M1F1	5.000	0.000
(BDF066)	◇	SSV-ATP ORBITER B2C2D2M1F1W2V3K2	5.000	0.000
(BDF093)	△	SSV-ATP ORBITER B2C2D2M1W2V3K2	5.000	

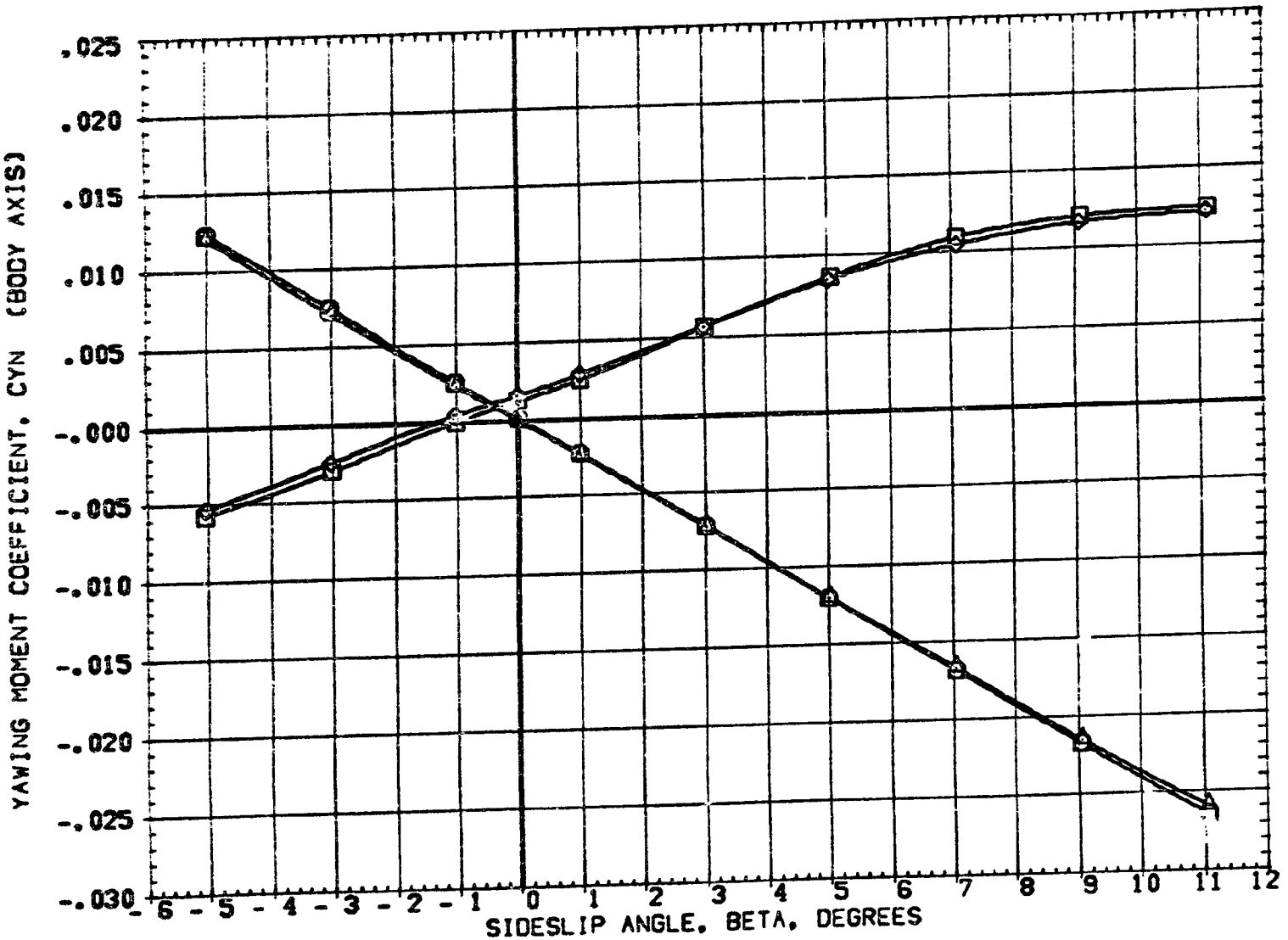


FIG. 27 EFFECT OF BODYFLAP, ALPHA= 5 DEG.

(A)MACH = 0.26

(BDF024)	□	SSV-ATP ORBITER	B2C2D2H1	5.000	
(BDF031)	○	SSV-ATP ORBITER	B2C2D2H1F1	5.000	0.000
(BDF066)	◇	SSV-ATP ORBITER	B2C2D2H1F1W2V3K2	5.000	0.000
(BDF073)	△	SSV-ATP ORBITER	B2C2D2H1W2V3K2	5.000	

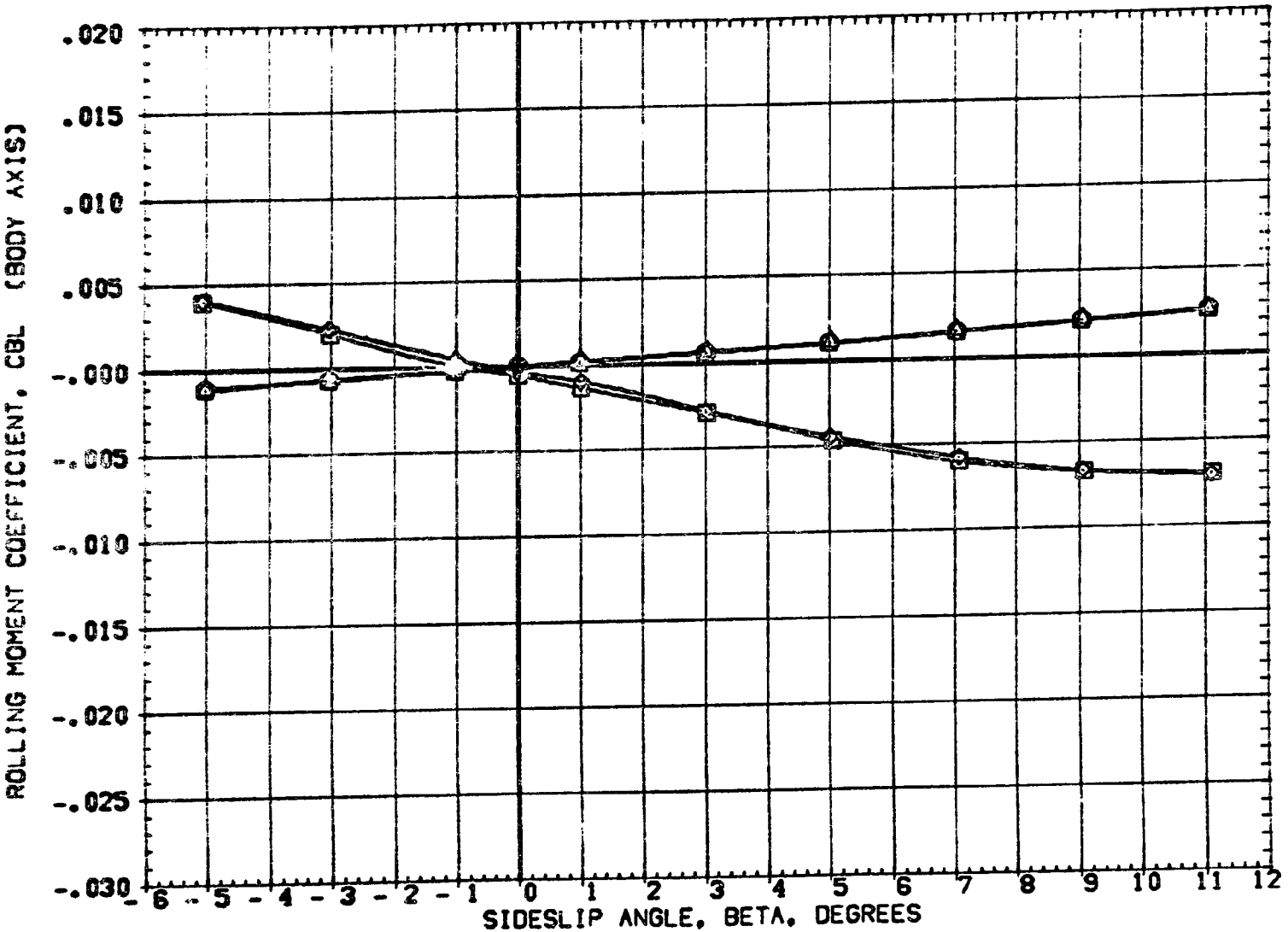


FIG. 27 EFFECT OF BODYFLAP, ALPHA= 5 DEG.

(A)MACH = 0.26

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION		ALPHA	B2FLAP
(80F029)	○	SSV-ATP ORBITER	B2C2D2M1	10.000	
(80F032)	◇	SSV-ATP ORBITER	B2C2D2M1F1	10.000	0.000
(80F027)	◇	SSV-ATP ORBITER	B2C2D2M1F1W2V3R2	10.000	0.000
(80F028)	□	SSV-ATP ORBITER	B2C2D2M1W2V3R2	10.000	

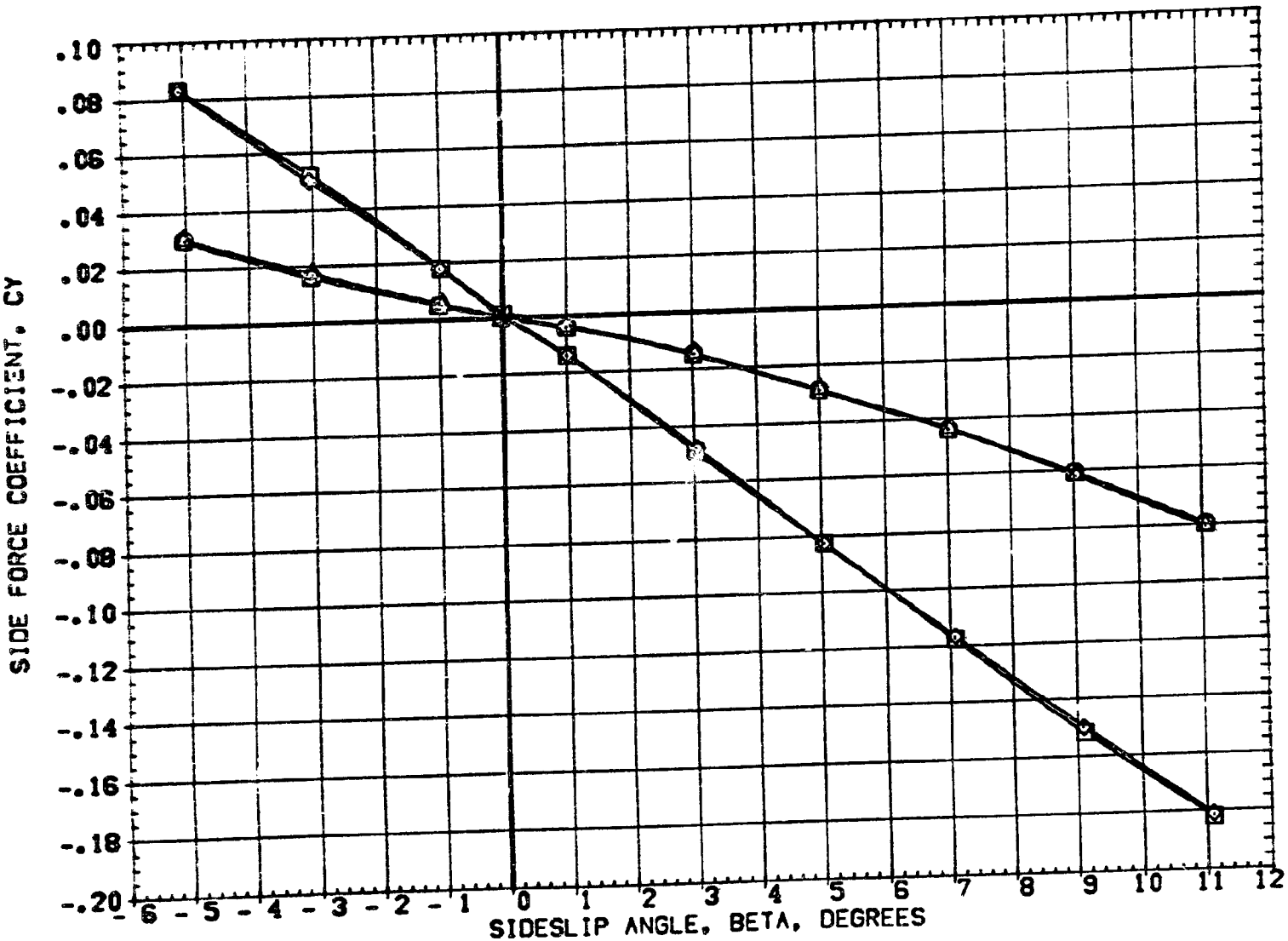


FIG. 28 EFFECT OF BODYFLAP, ALPHA= 10 DEG.

(A)MACH = 0.26

(B2F029)	□	SSV-ATP ORBITER	B2C2D2H1	10.000	
(B2F032)	△	SSV-ATP ORBITER	B2C2D2H1F1W2V3X2	10.000	0.000
(B2F047)	◇	SSV-ATP ORBITER	B2C2D2H1W2V3X2	10.000	0.000
(B2F078)	○	SSV-ATP ORBITER	B2C2D2H1W2V3X2	10.000	

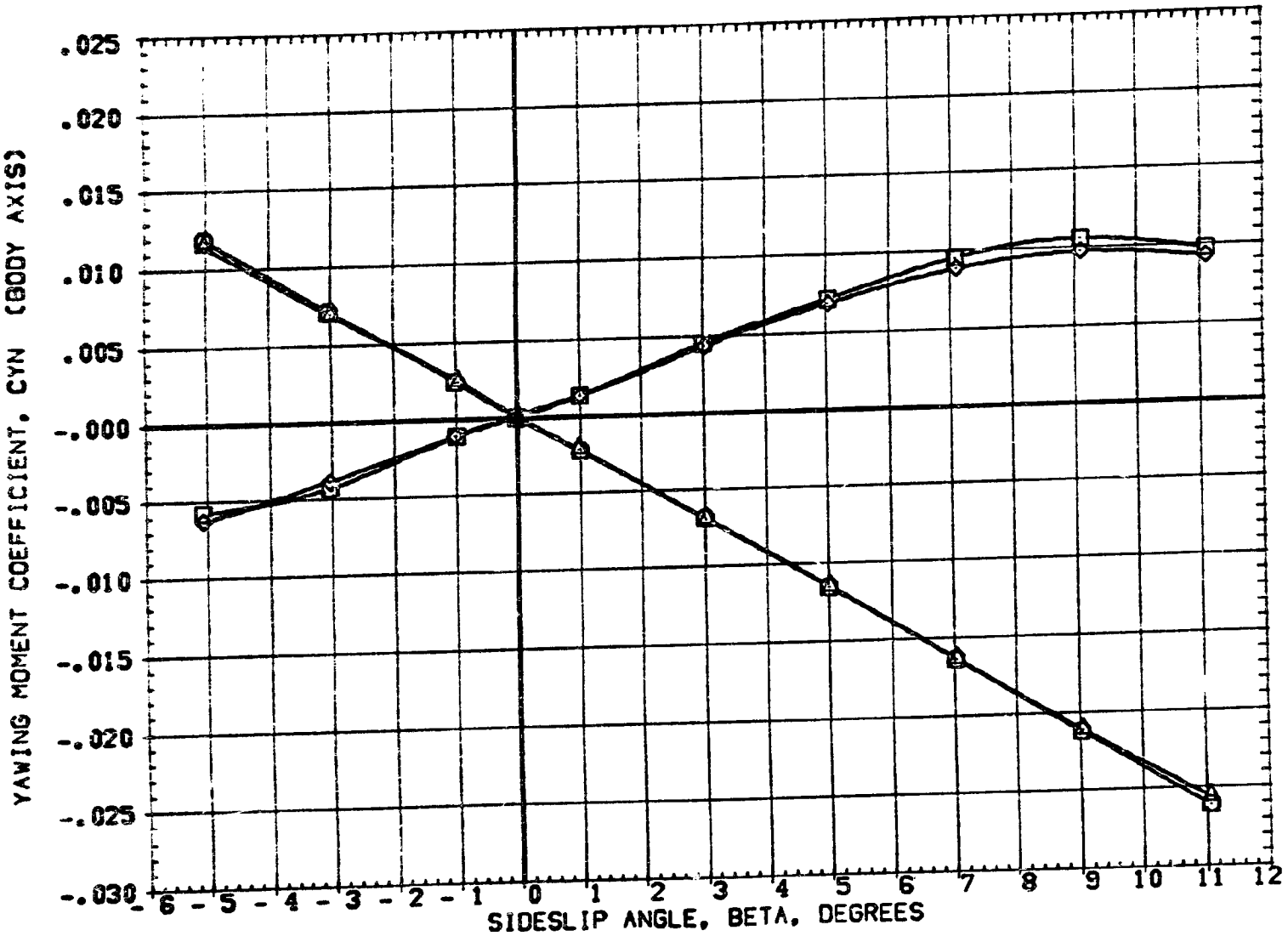


FIG. 28 EFFECT OF BODYFLAP, ALPHA= 10 DEG.

(A)MACH = 0.26

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	ALPHA	BEFLAP
(EOF029)	○	SSV-ATP ORBITER B2C202H1	10.000	
(EOF032)	◇	SSV-ATP ORBITER B2C202H1F1	10.000	0.000
(EOF068)	◇	SSV-ATP ORBITER B2C202H1F1W2V3R2	10.000	0.000
(EOF076)	□	SSV-ATP ORBITER B2C202H1W2V3R2	10.000	

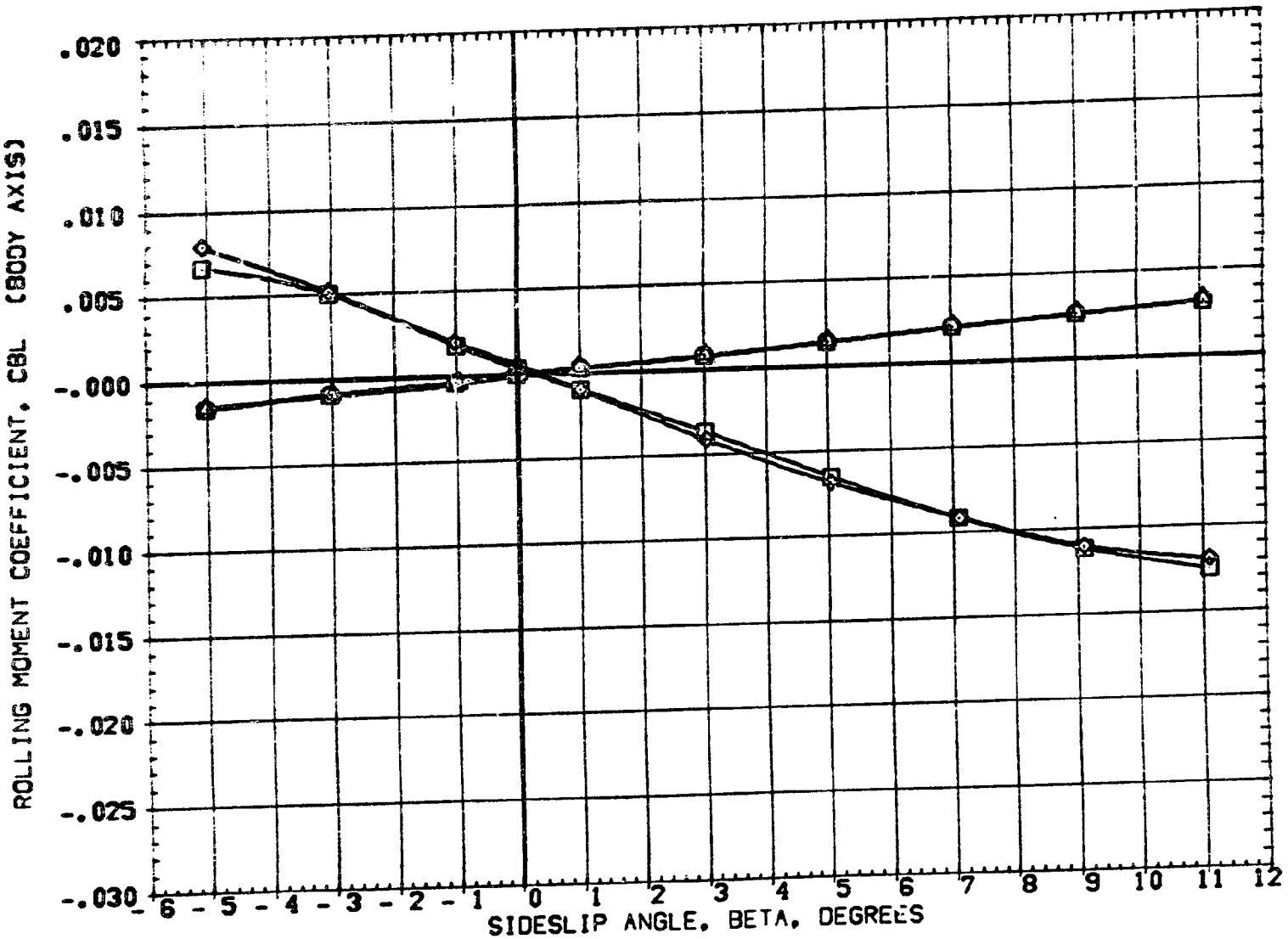


FIG. 28 EFFECT OF BODYFLAP, ALPHA= 10 DEG.

(A)MACH = 0.26

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ALPHA	B2FLAP
(BDF026)	SSV-ATP ORBITER B2C202M1	15.000	
(BDF033)	SSV-ATP ORBITER B2C202M1F1	15.000	0.000
(BDF068)	SSV-ATP ORBITER B2C202M1F1W2V3R2	15.000	0.000
(BDF077)	SSV-ATP ORBITER B2C202M1W2V3R2	13.000	

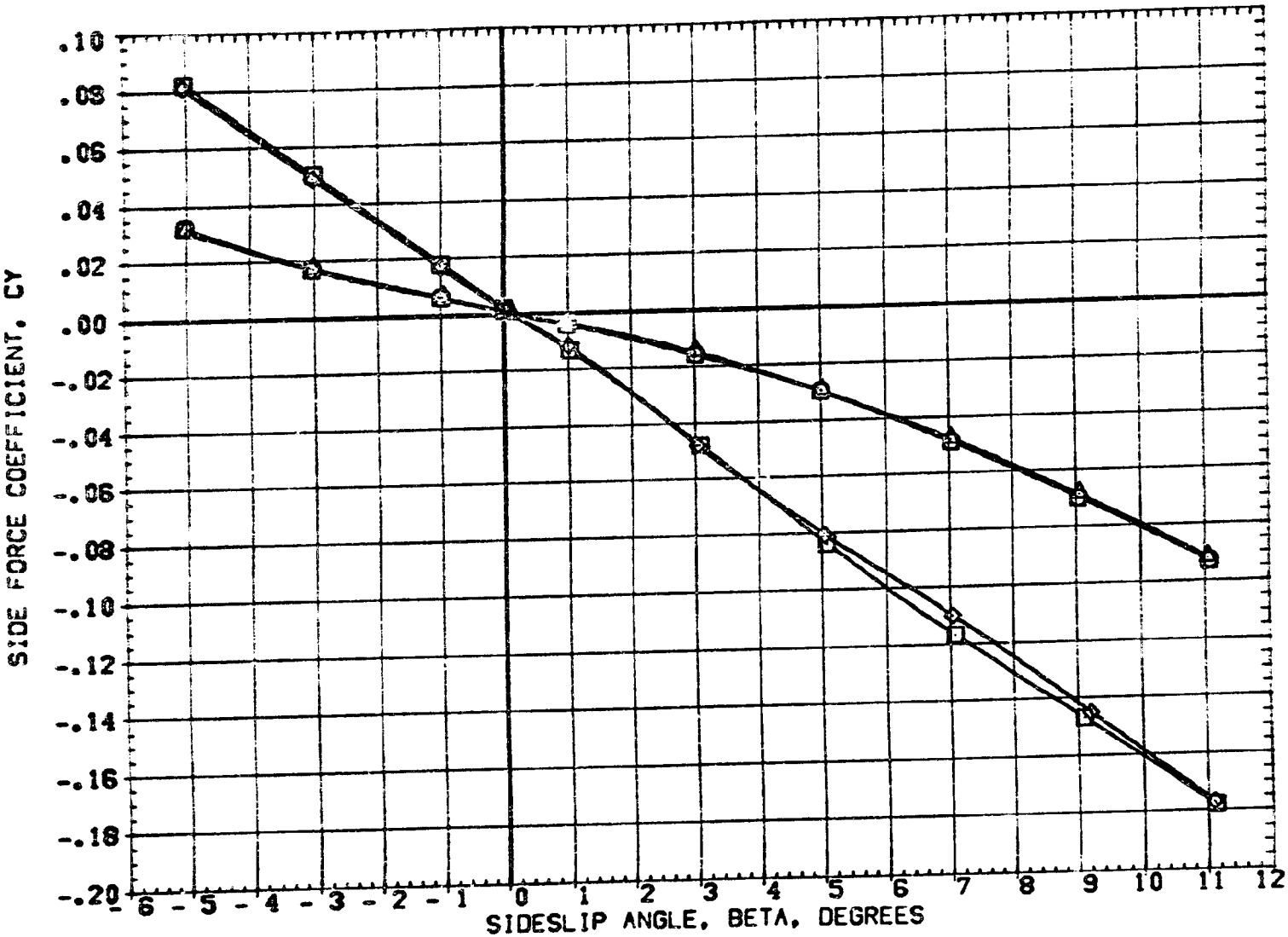


FIG. 29 EFFECT OF BODYFLAP, ALPHA= 15 DEG.

(A)MACH = 0.26

DATA SET	SYMBOL	CONFIGURATION	DESCRIPTION	ALPHA	B2FLAP
(80F086)	○	SSV-ATP	ORBITER B2C2D2M1	15.000	
(80F093)	△	SSV-ATP	ORBITER B2C2D2M1F1	15.000	0.000
(80F088)	◇	SSV-ATP	ORBITER B2C2D2M1F1W2V3K2	15.000	0.000
(80F077)	□	SSV-ATP	ORBITER B2C2D2M1W2V3K2	15.000	

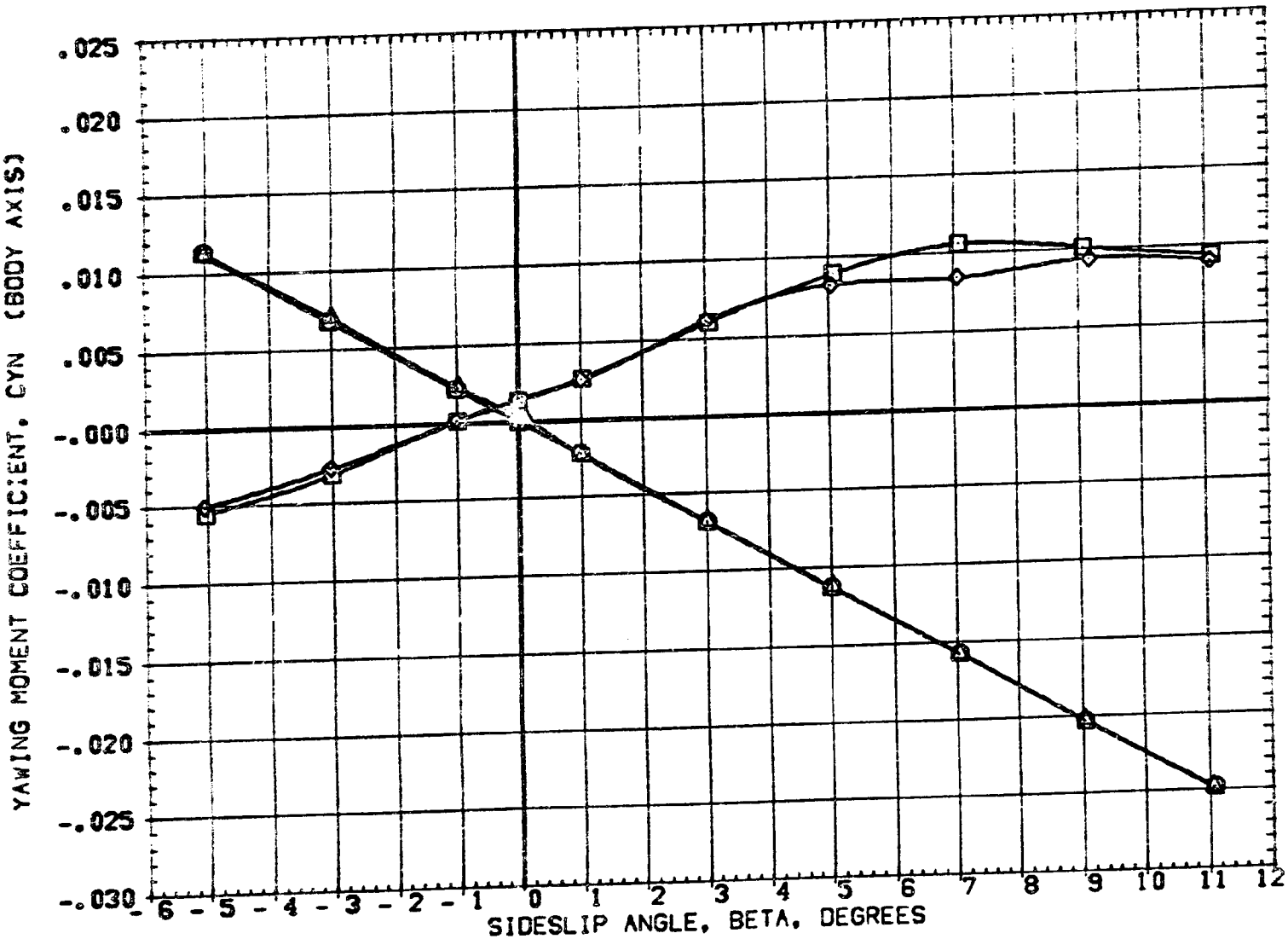


FIG. 29 EFFECT OF BODYFLAP, ALPHA= 15 DEG.

(A)MACH = 0.26

DATA SET SYMBOL	CONFIGURATION DESCRIPTION			
(8DP626)	SSV-ATP ORBITER	82C202M2	15.000	
(8DP933)	SSV-ATP ORBITER	82C202M2F1	15.000	0.000
(8DP968)	SSV-ATP ORBITER	82C202M2F1W2V3R2	15.000	0.000
(8DP979)	SSV-ATP ORBITER	82C202M1W2V3R2	15.000	

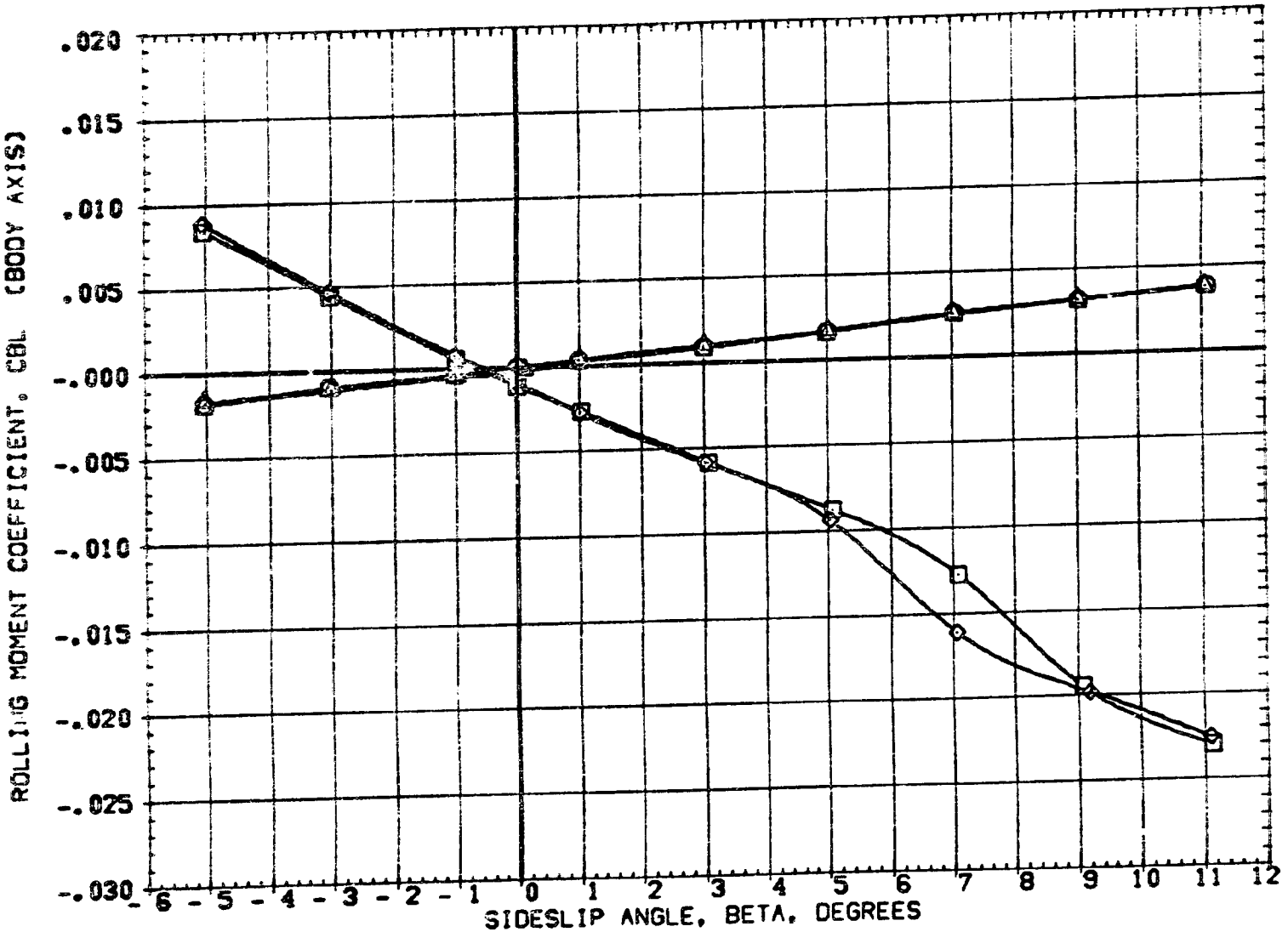


FIG. 29 EFFECT OF BODYFLAP, ALPHA= 15 DEG.

(A)MACH = 0.26

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	ALPHA	BZFLAP
(BDF3EP)	□	SSV-ATP ORBITER B2C2D2M1	18.000	
(BDF394)	△	SSV-ATP ORBITER B2C2D2M1F1	18.000	0.000
(BDF389)	◇	SSV-ATP ORBITER B2C2D2M1F1W2V3K2	18.000	0.000
(BDFDP4)	○	SSV-ATP ORBITER B2C2D2M1W2V3K2	18.000	

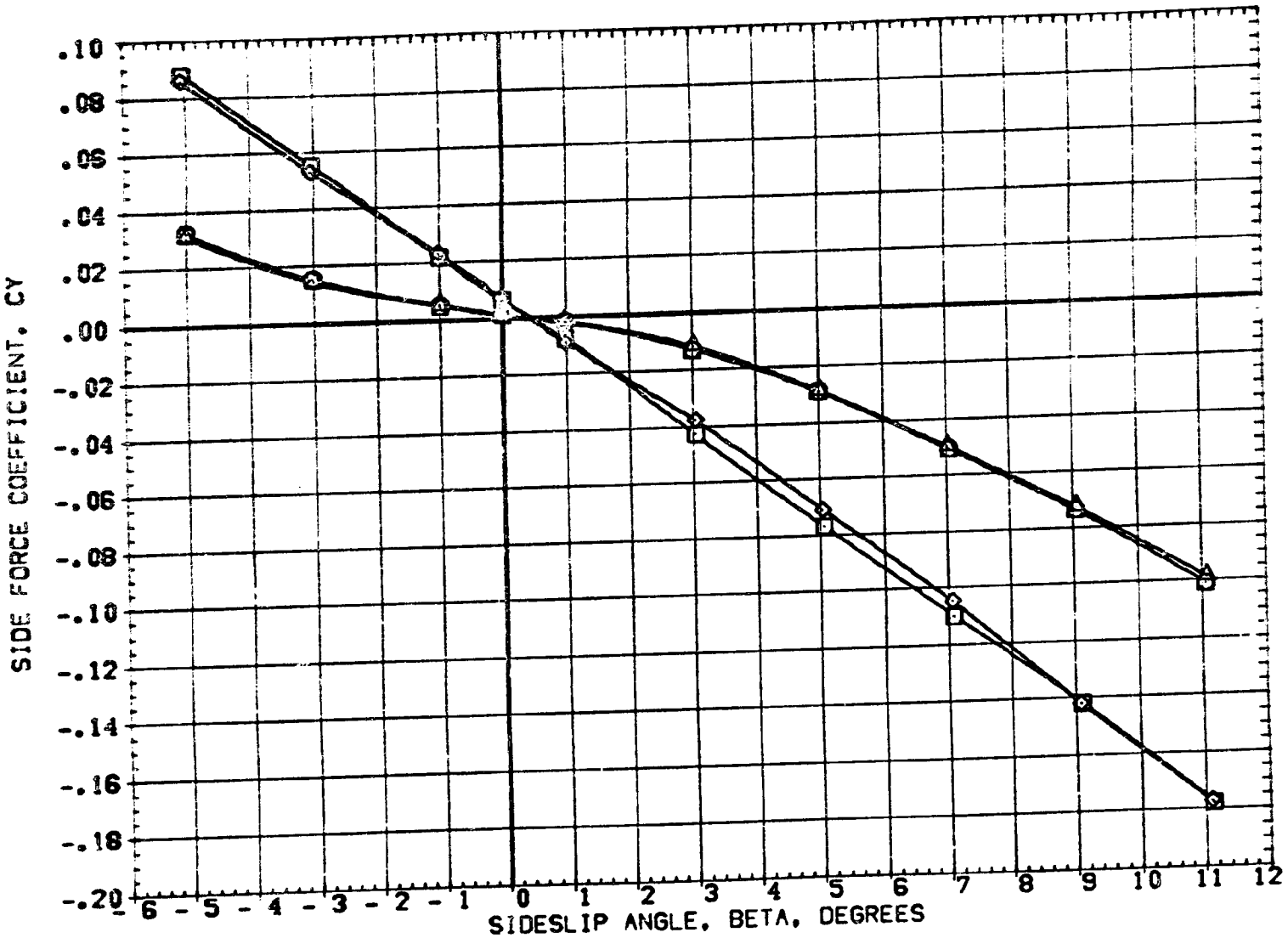


FIG. 30 EFFECT OF BODYFLAP, ALPHA= 18 DEG.

(A)MACH = 0.26

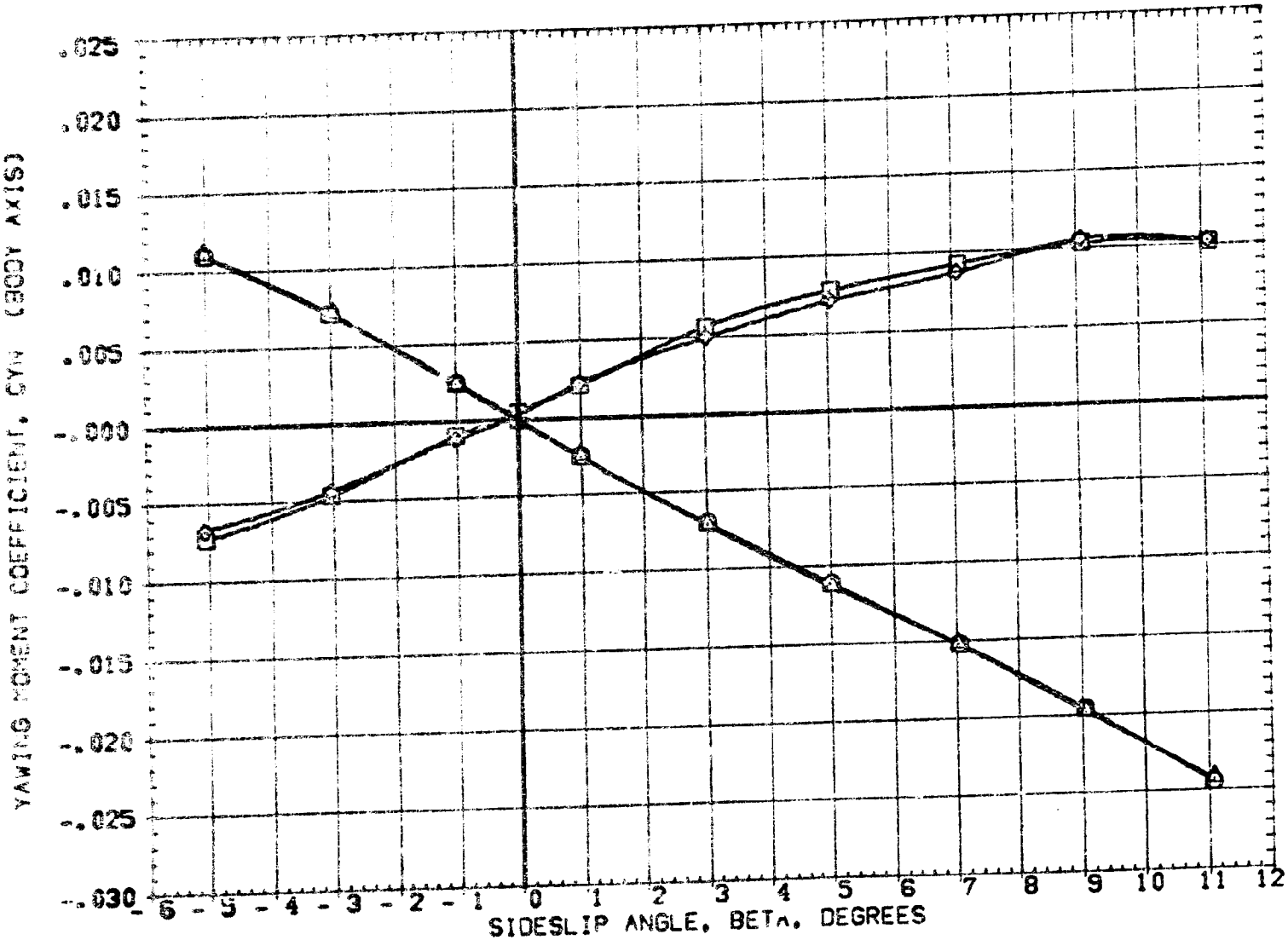


FIG. 30 EFFECT OF BODYFLAP, ALPHA= 18 DEG.

(A)MACH = 0.26

REPRODUCIBILITY OF THE ORIGINAL PAGE IS POOR

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ALPHA	B2FLAP
(BDF027)	33V-ATP ORBITER B2C2D2H1	18.000	
(BDF034)	33V-ATP ORBITER B2C2D2H1F1	18.000	0.000
(BDF069)	33V-ATP ORBITER B2C2D2H1F1W2V3R2	18.000	0.000
(BDF072)	33V-ATP ORBITER B2C2D2H1W2V3R2	18.000	

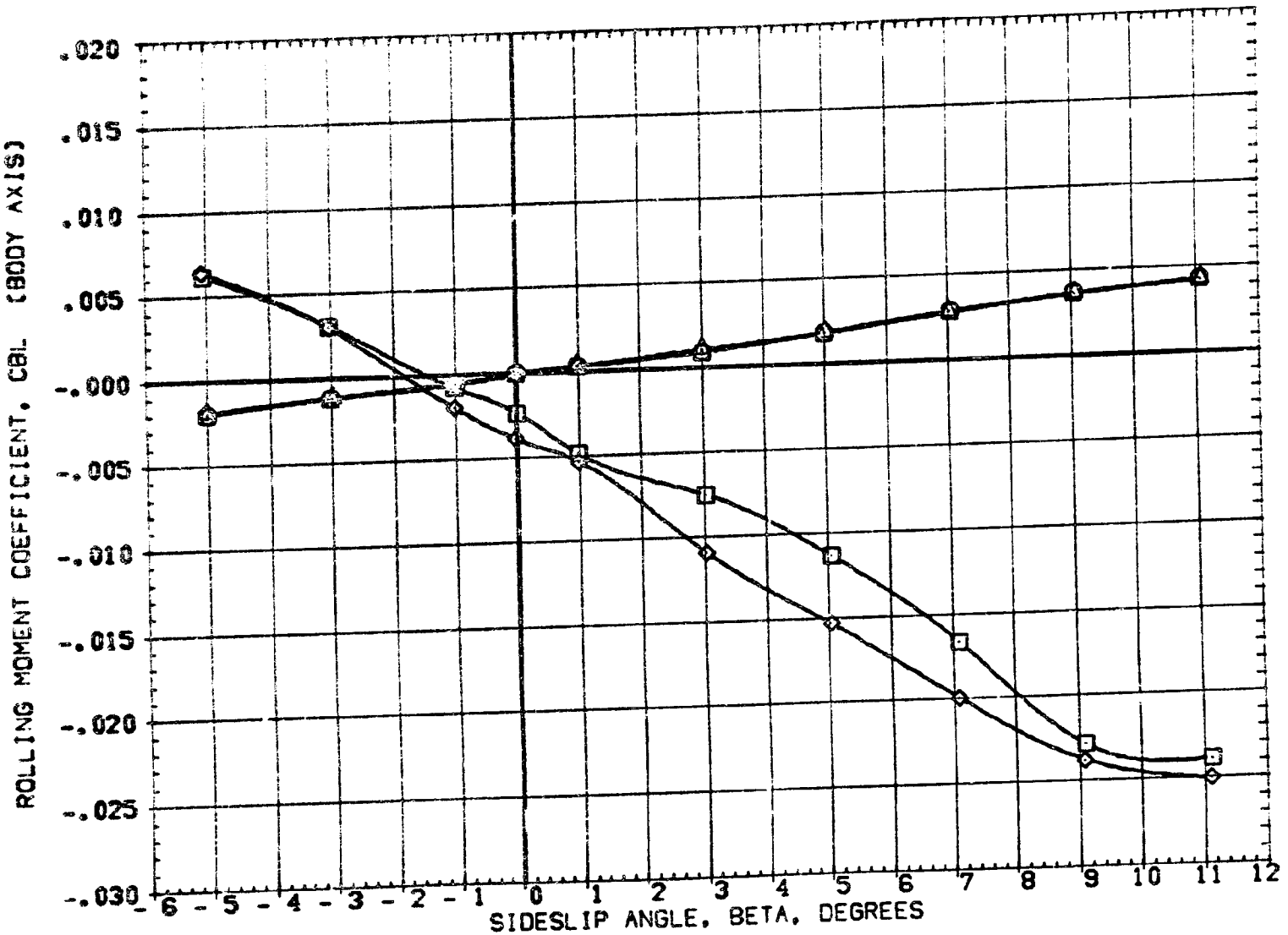


FIG. 30 EFFECT OF BODY FLAP, ALPHA= 18 DEG.

(A)MACH = 0.26

DATA SET SYMBOL	CONFIGURATION DESCRIPTION
[illegible]	SSV-ATP ORBITER B2C2D2N1
[illegible]	SSV-ATP ORBITER B2C2D2N1F1
[illegible]	SSV-ATP ORBITER B2C2D2N1F1W2V3N2
[illegible]	SSV-ATP ORBITER B2C2D2N1W2V3N2

ALPHA	B2FLAP
20.000	
20.000	0.000
20.000	0.000
20.000	

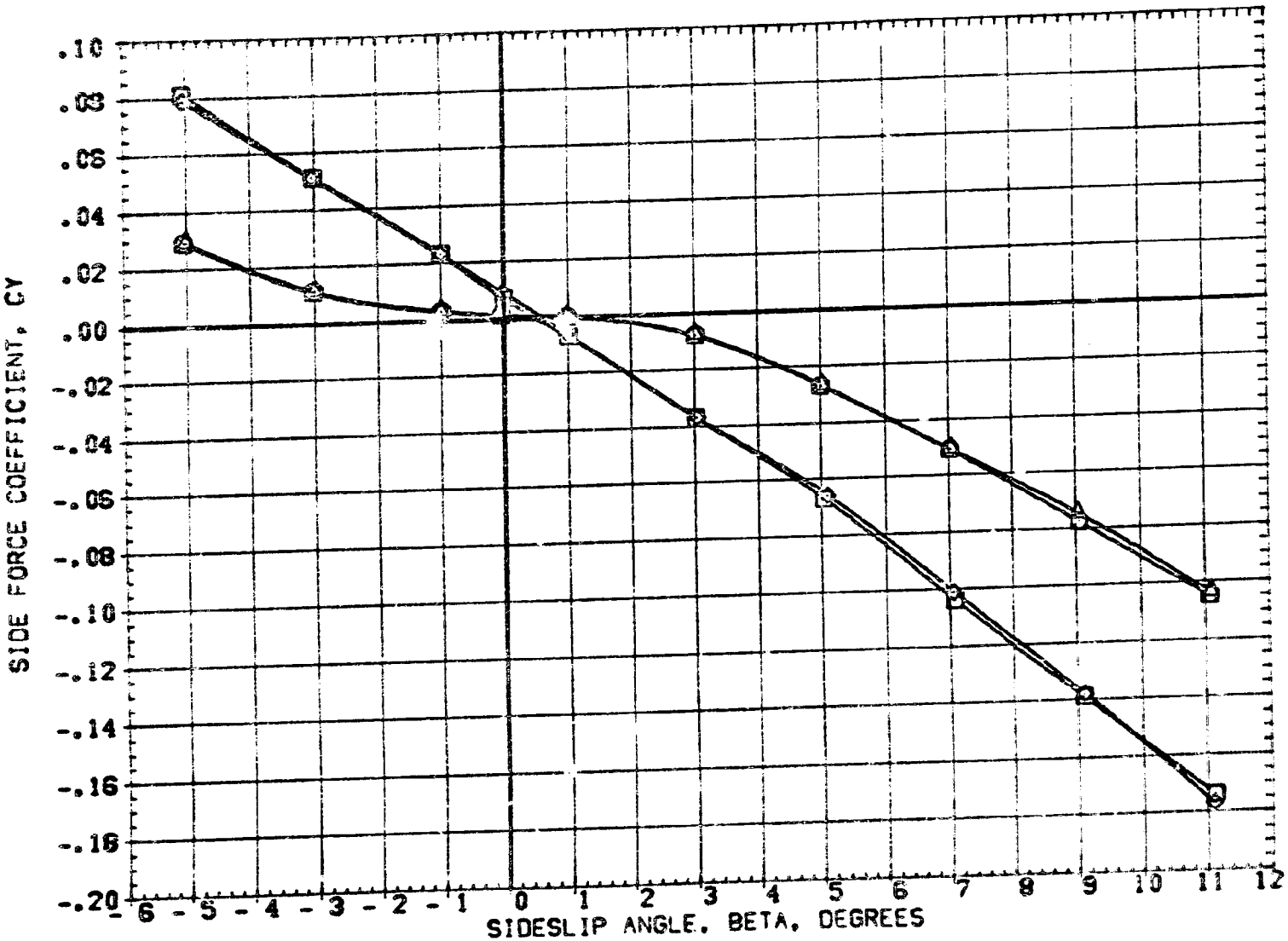


FIG. 31 EFFECT OF BODYFLAP, ALPHA= 20 DEG.

(A)MACH = 0.26

DATA SET SYMBOL	CONFIGURATION DESCRIPTION		ALPHA	B2FLAP
(BOF028)	SSV-ATP ORBITER	B2C2D2M1	20.000	
(BOF035)	SSV-ATP ORBITER	B2C2D2M1F1	20.000	0.000
(BOF070)	SSV-ATP ORBITER	B2C2D2M1F1W2V3R2	20.000	0.000
(BOF079)	SSV-ATP ORBITER	B2C2D2M1W2V3R2	20.000	

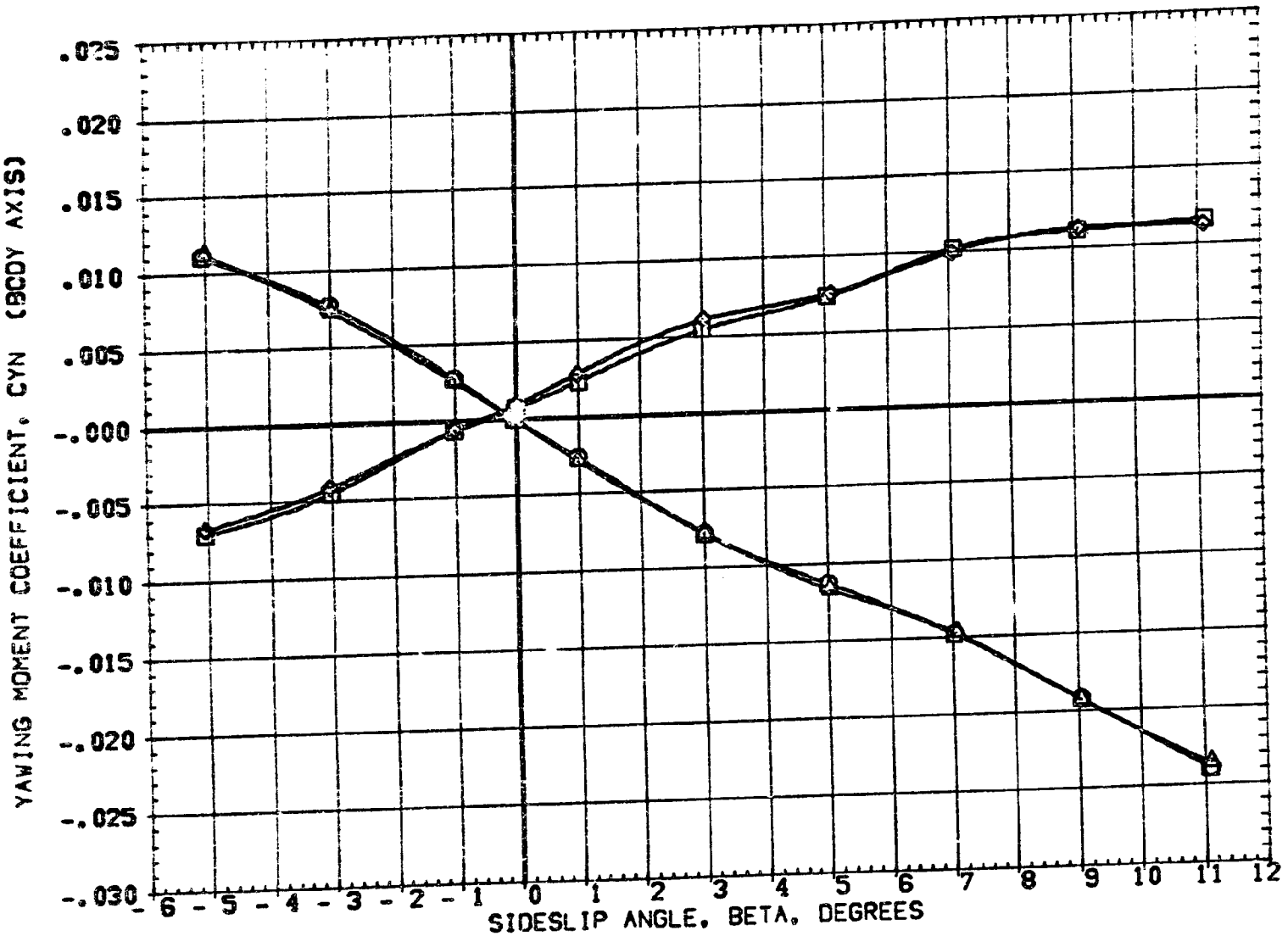


FIG. 31 EFFECT OF BODYFLAP, ALPHA= 20 DEG.

(A)MACH = 0.26

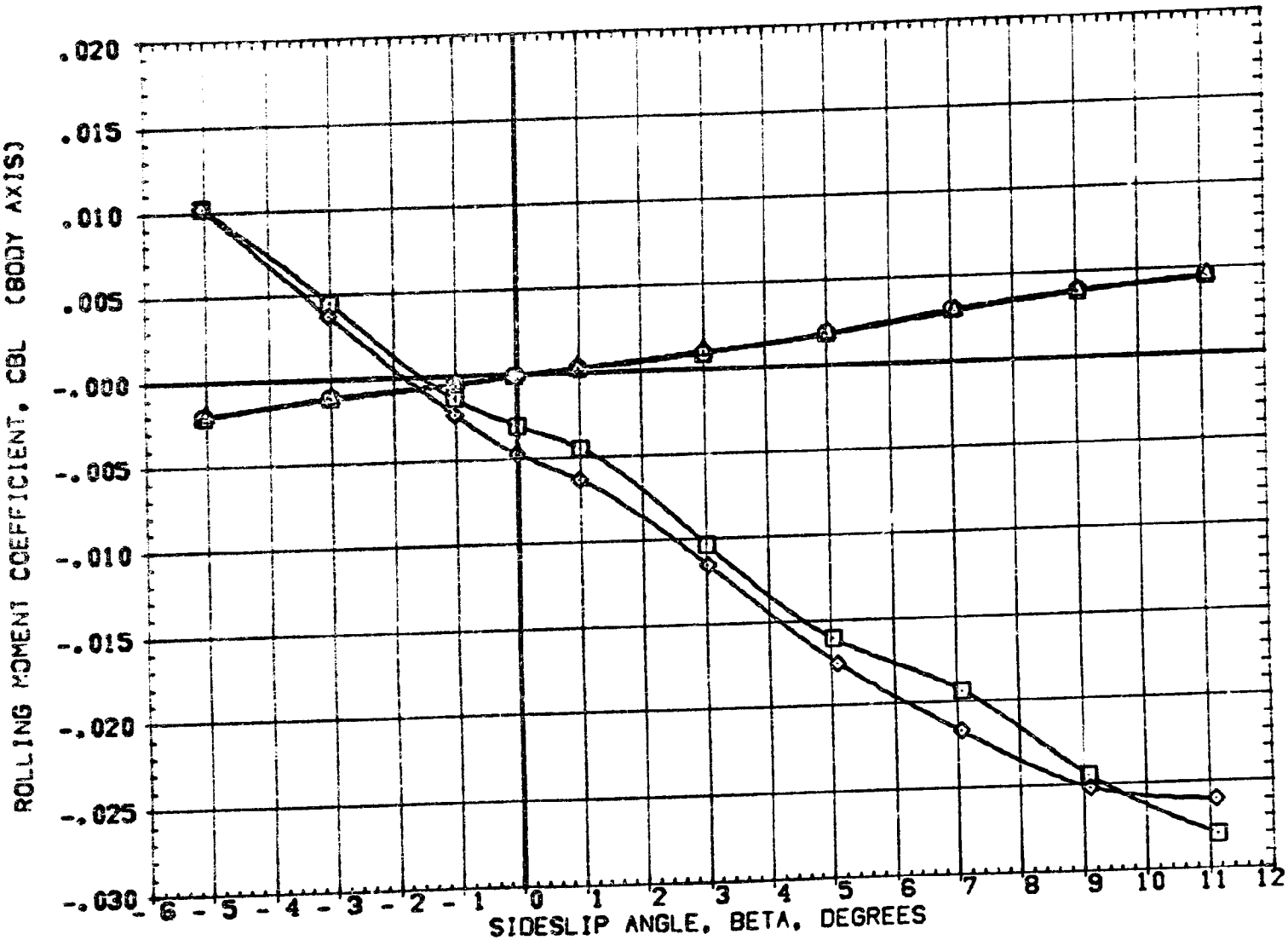


FIG. 31 EFFECT OF BODYFLAP, ALPHA= 20 DEG.

(A)MACH = 0.26

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA
(ADF001)	33V-ATP ORBITER 82	0.000
(ADF002)	33V-ATP ORBITER 82C202	0.000
(ADF015)	33V-ATP ORBITER 82C203	0.000

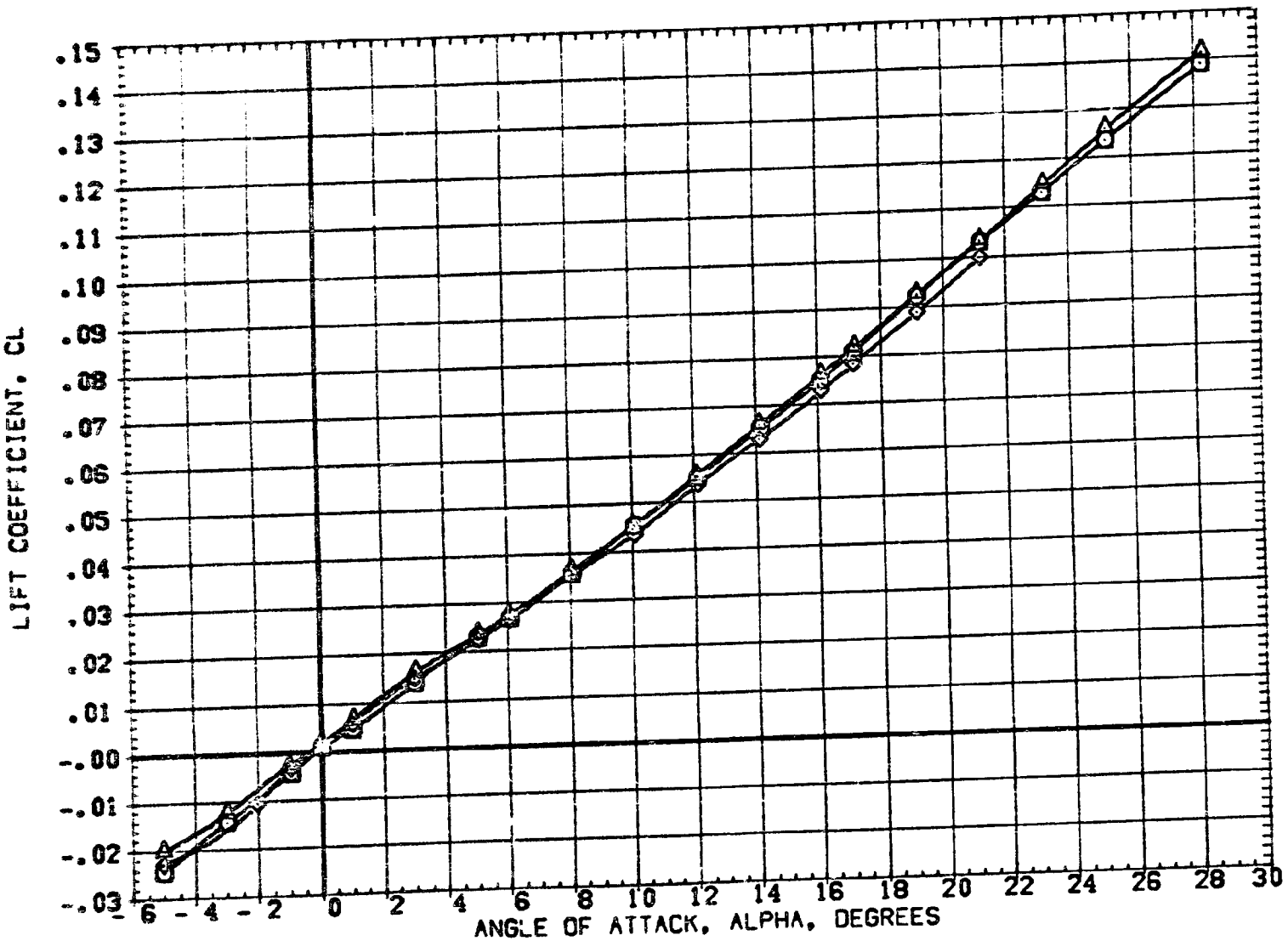


FIG. 32 EFFECT OF MAH CONFIGURATION, BETA= 0 DEG.

(A)MACH = 0.26

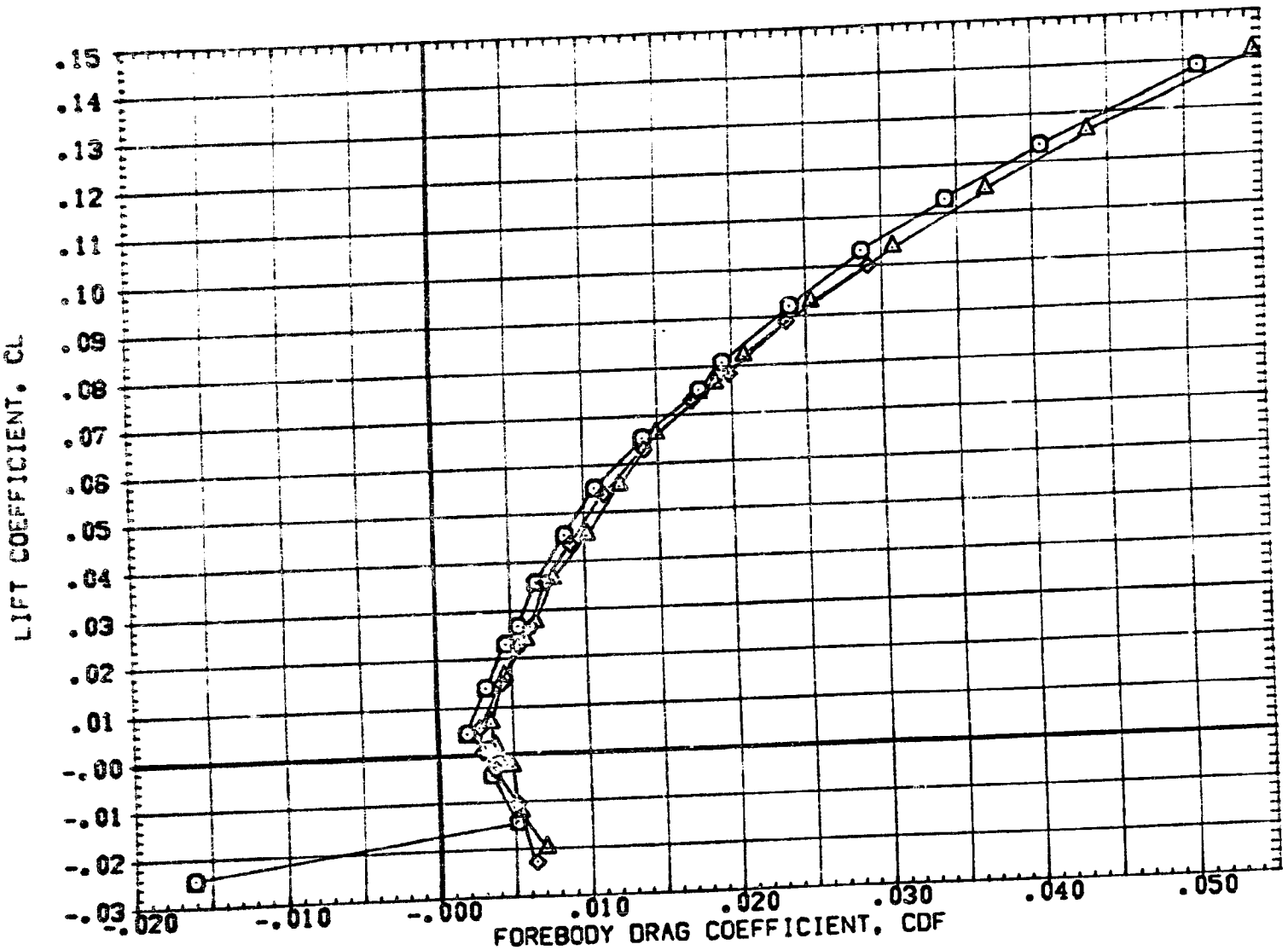


FIG. 32 EFFECT OF MAH CONFIGURATION, BETA= 0 DEG.

(A)MACH = 0.26

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	BETA
(ADF001)	○	SSV-ATP ORBITER B2	0.000
(ADF009)	□	SSV-ATP ORBITER B2CE02	0.000
(ADF015)	◇	SSV-ATP ORBITER B2CE03	0.000

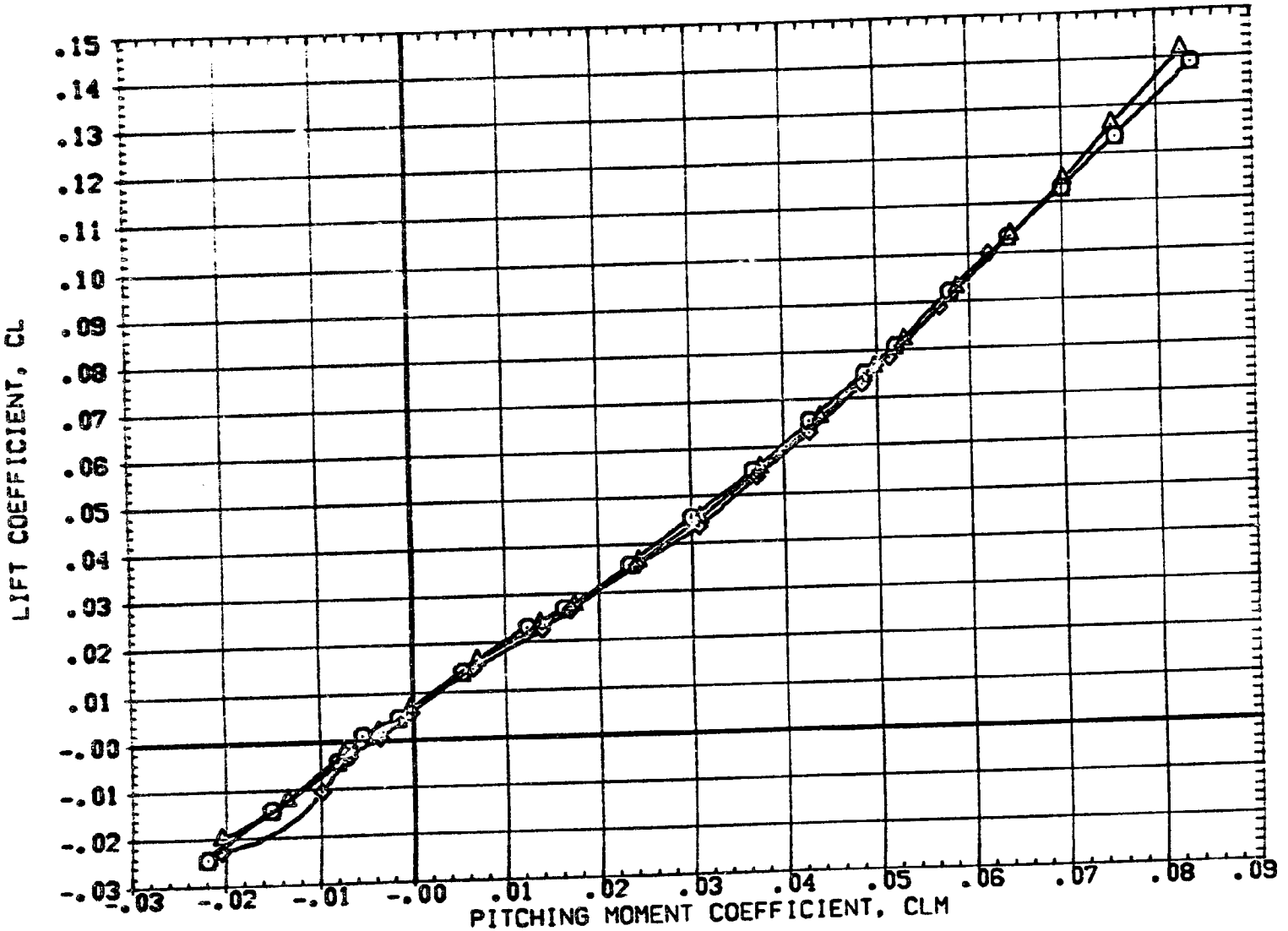


FIG. 32 EFFECT OF MAH CONFIGURATION, BETA= 0 DEG.

(A)MACH = 0.26

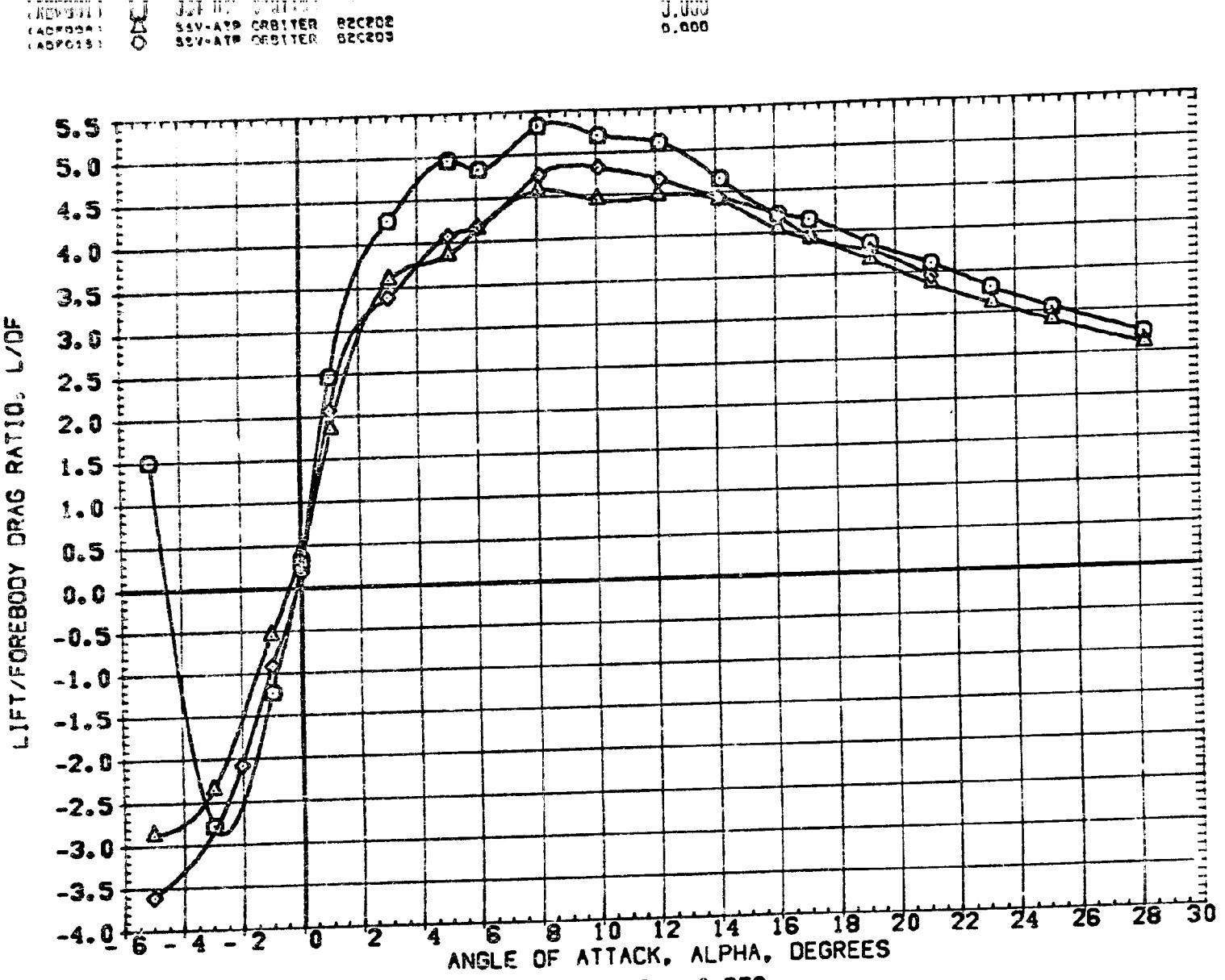


FIG. 32 EFFECT OF MAH CONFIGURATION, BETA= 0 DEG.

(A)MACH = 0.26

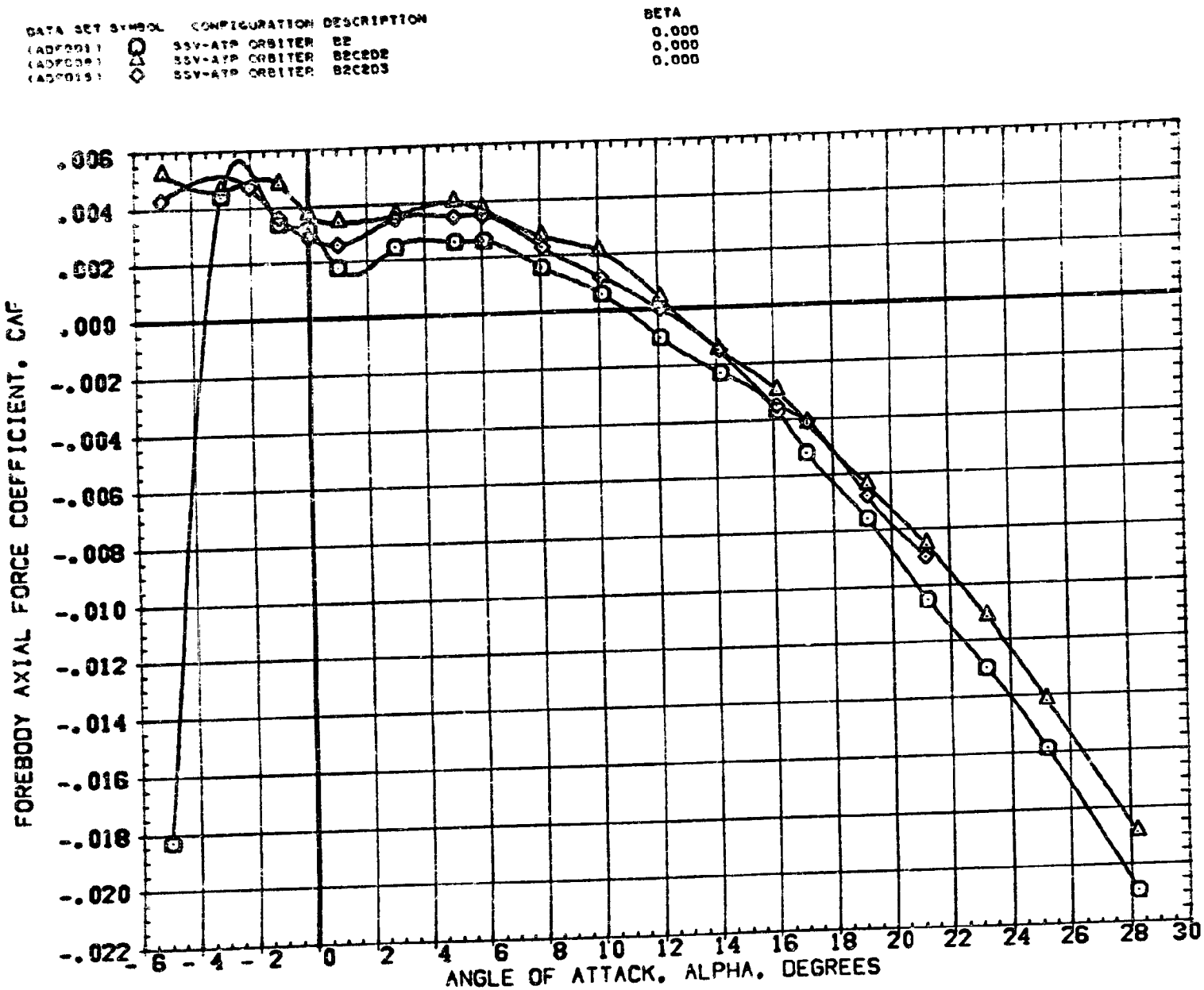


FIG. 32 EFFECT OF MAH CONFIGURATION, BETA= 0 DEG.

(A)MACH = 0.26

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	BETA
(A)OF001	○	SSV-ATP ORBITER 02	0.000
(A)OF002	△	SSV-ATP ORBITER 02C202	0.000
(A)OF003	◇	SSV-ATP ORBITER 02C203	0.000

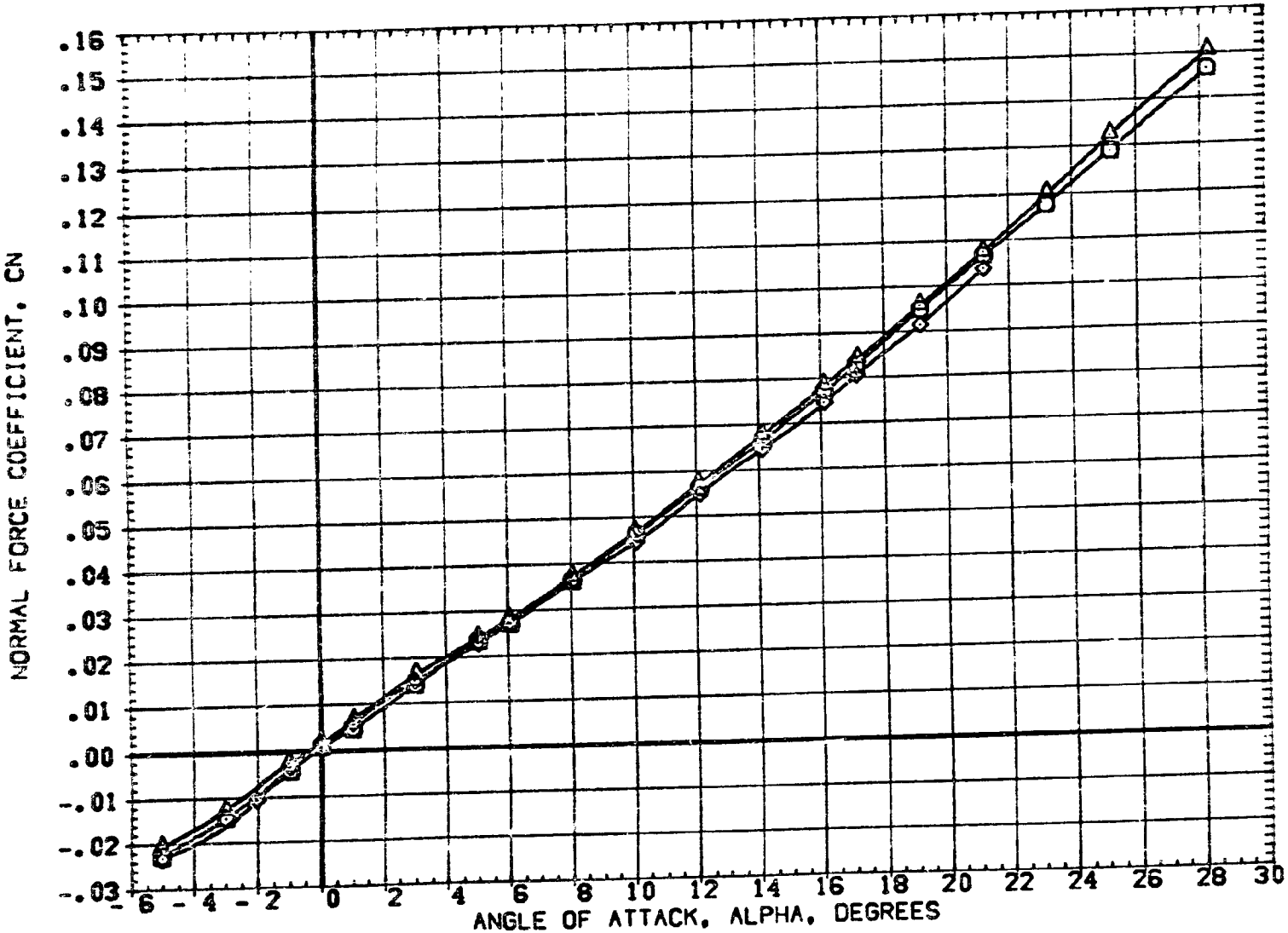


FIG. 32 EFFECT OF MAH CONFIGURATION, BETA= 0 DEG.

(A)MACH = 0.26

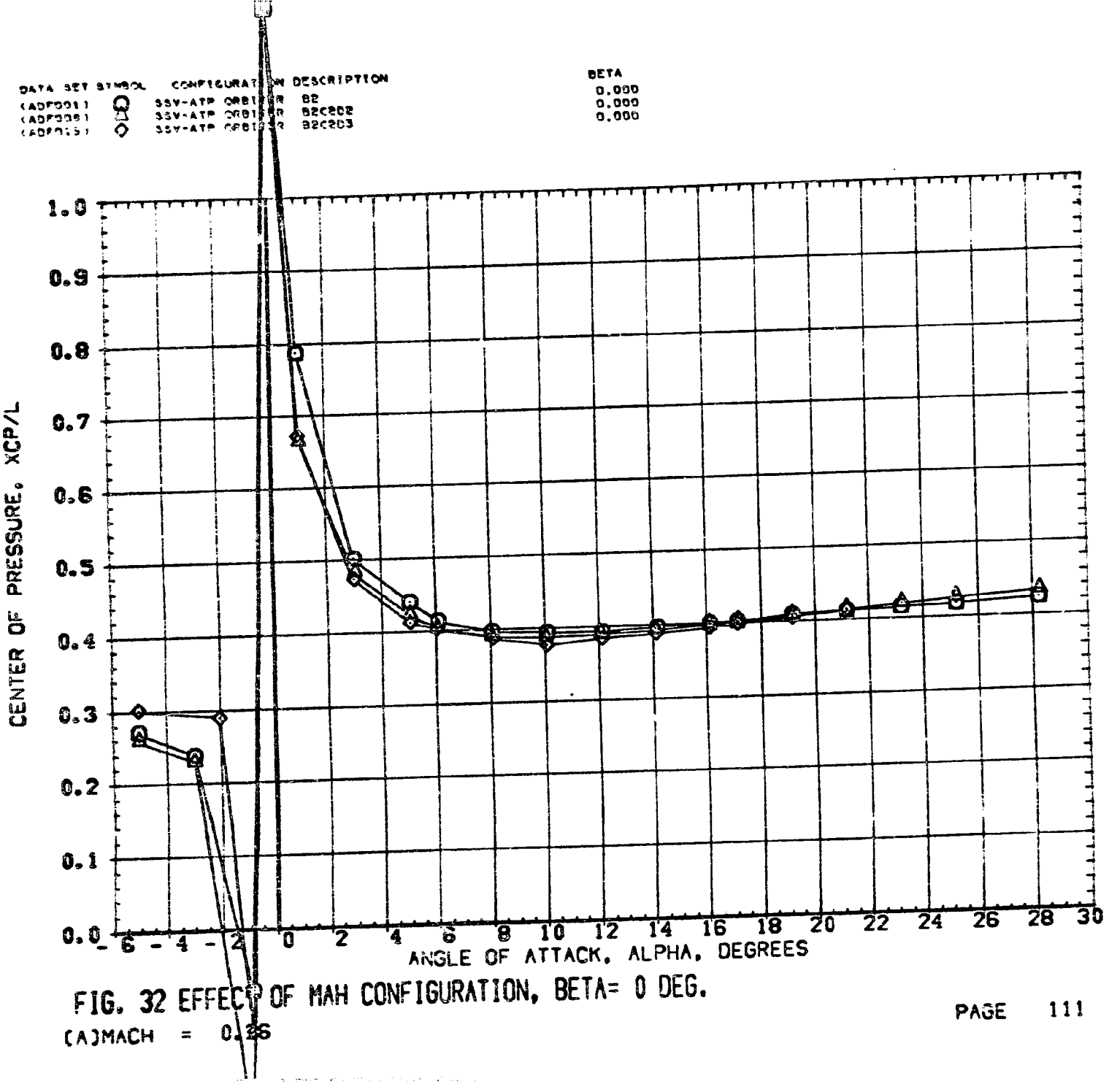


FIG. 32 EFFECT OF MAH CONFIGURATION, BETA= 0 DEG.

(A)MACH = 0.26

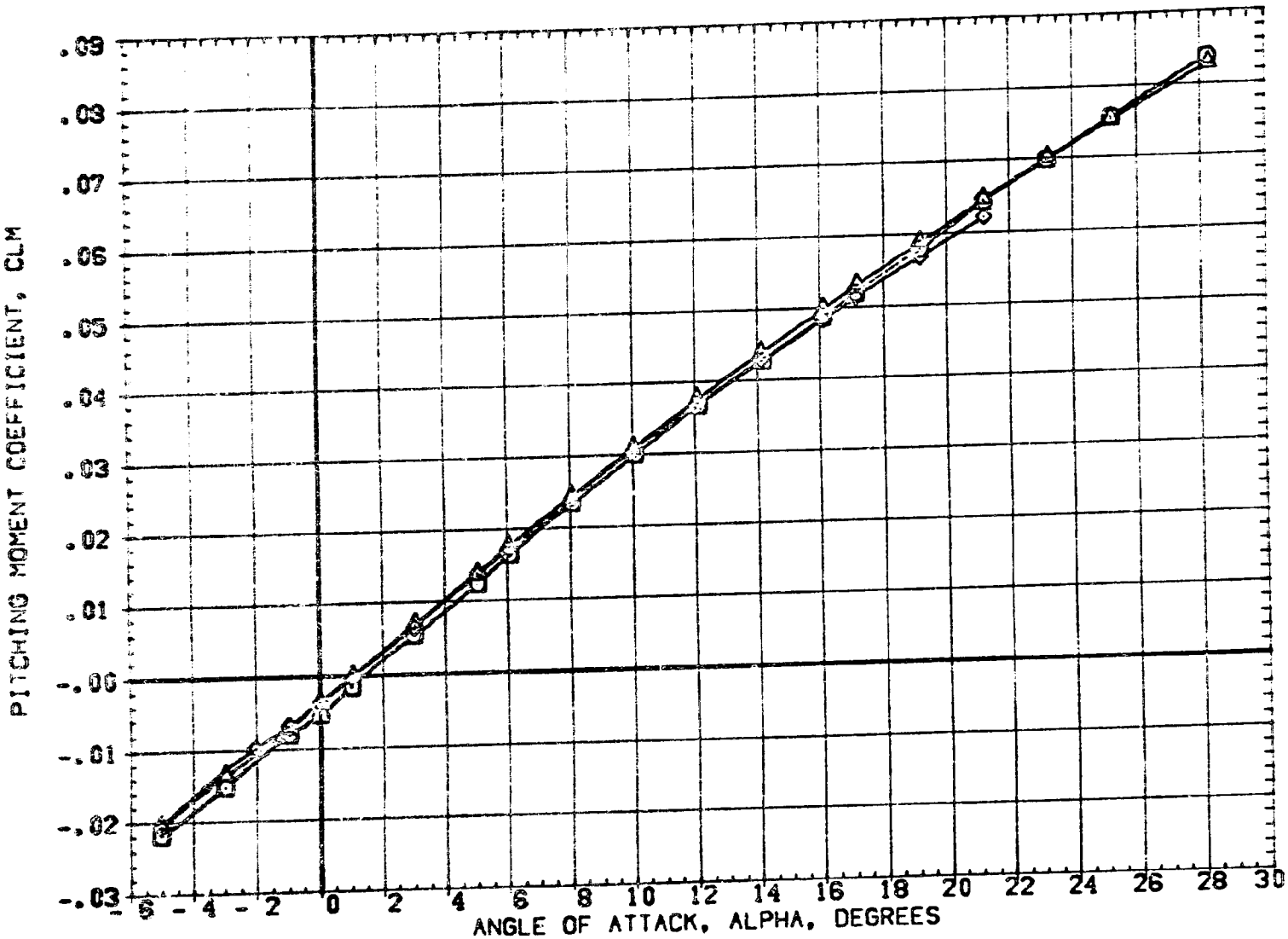


FIG. 32 EFFECT OF MAH CONFIGURATION, BETA= 0 DEG.

(A)MACH = 0.26

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	ALPHA
(85F052)	○	SSV-ATP ORBITER 82	0.000
(85F009)	△	SSV-ATP ORBITER 82C202	0.000
(85F016)	◇	SSV-ATP ORBITER 82C203	0.000

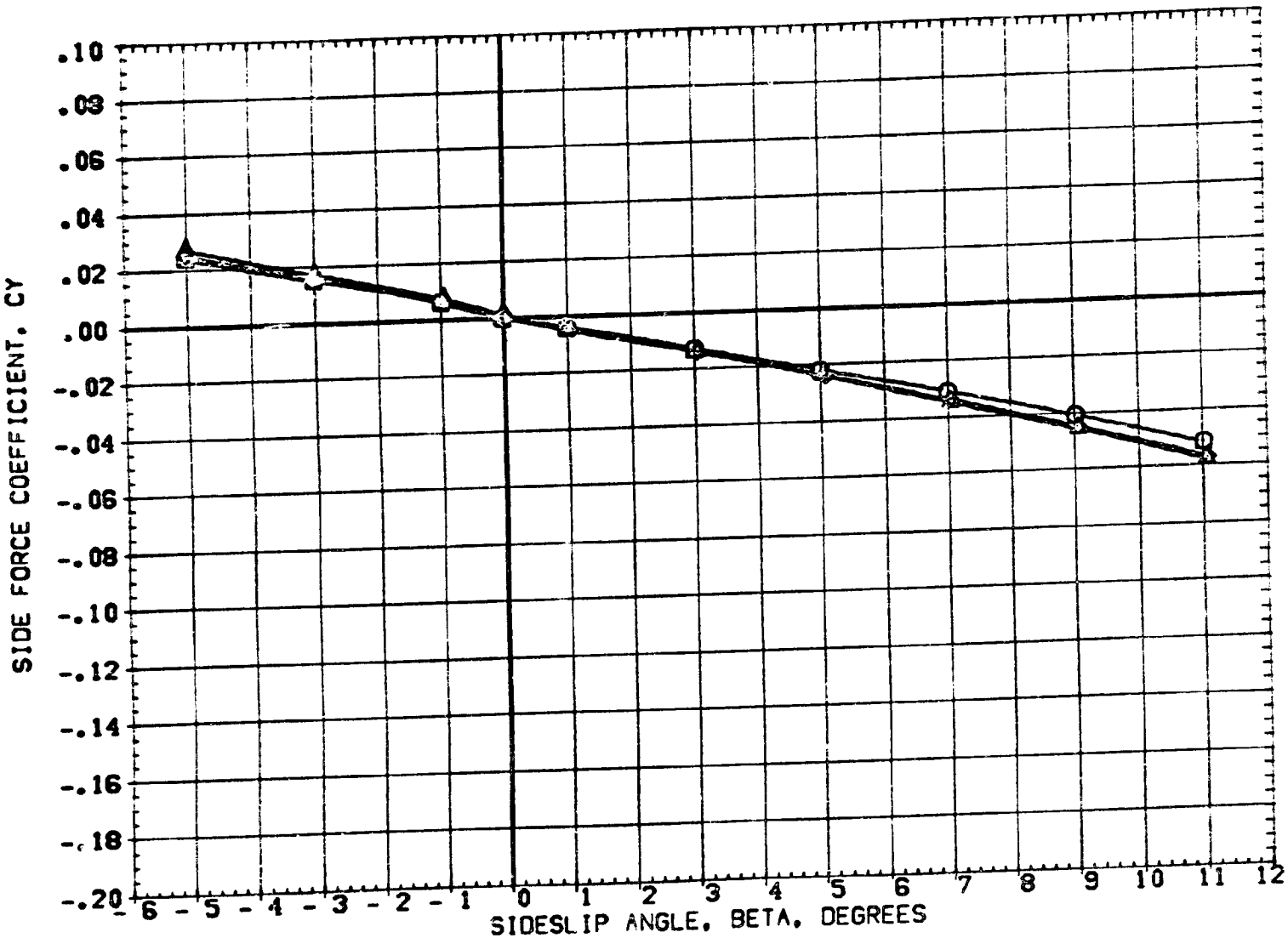


FIG. 33 EFFECT OF MAH CONFIGURATION, ALPHA= 0 DEG.

(A)MACH = 0.26

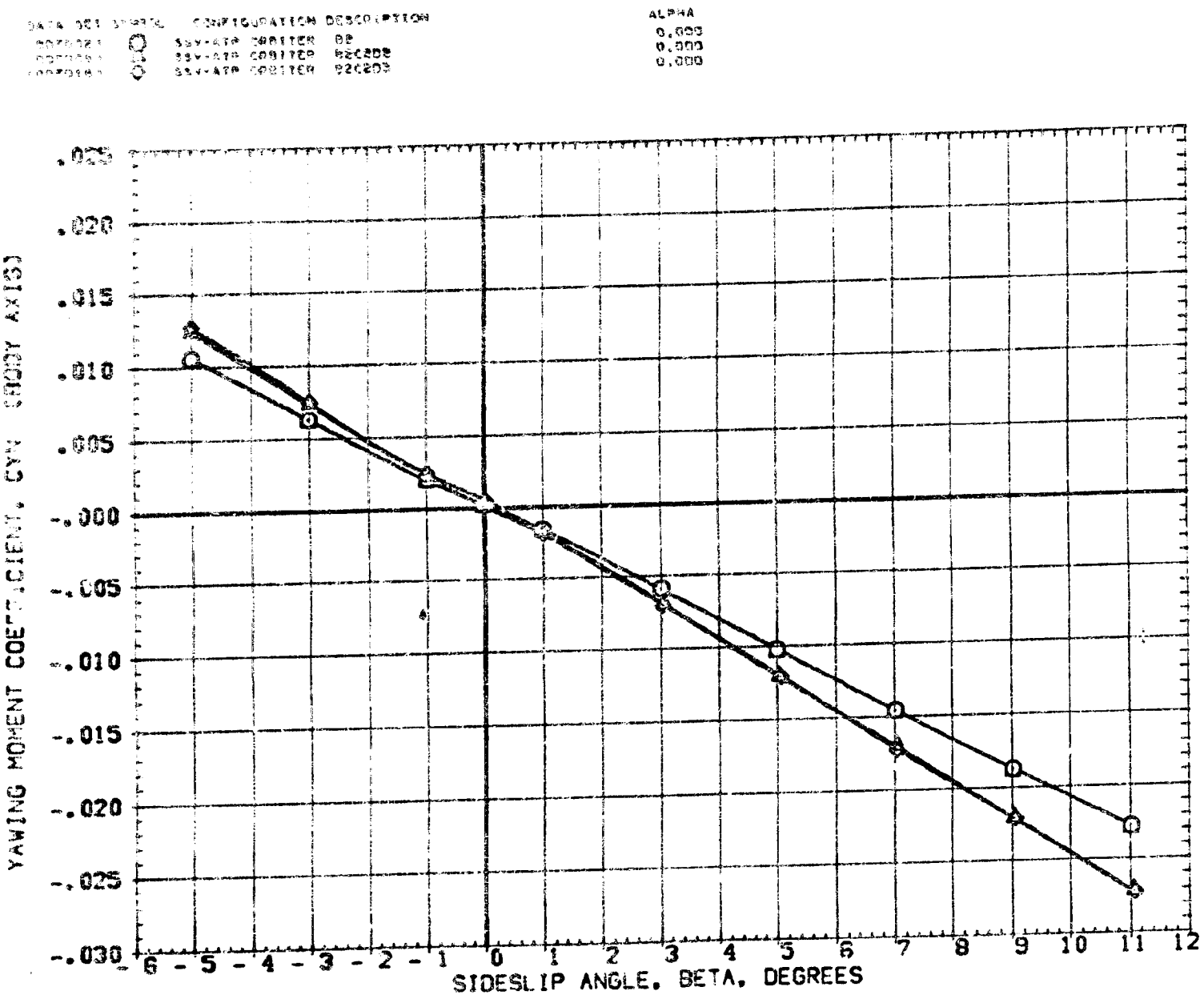


FIG. 33 EFFECT OF MAH CONFIGURATION, ALPHA= 0 DEG.

(A)MACH = 0.26

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ALPHA
(80F808)	SSV-ATP ORBITER 82	0.000
(80F909)	SSV-ATP ORBITER 82C2DE	0.000
(80F818)	SSV-ATP ORBITER 82C2D9	0.000

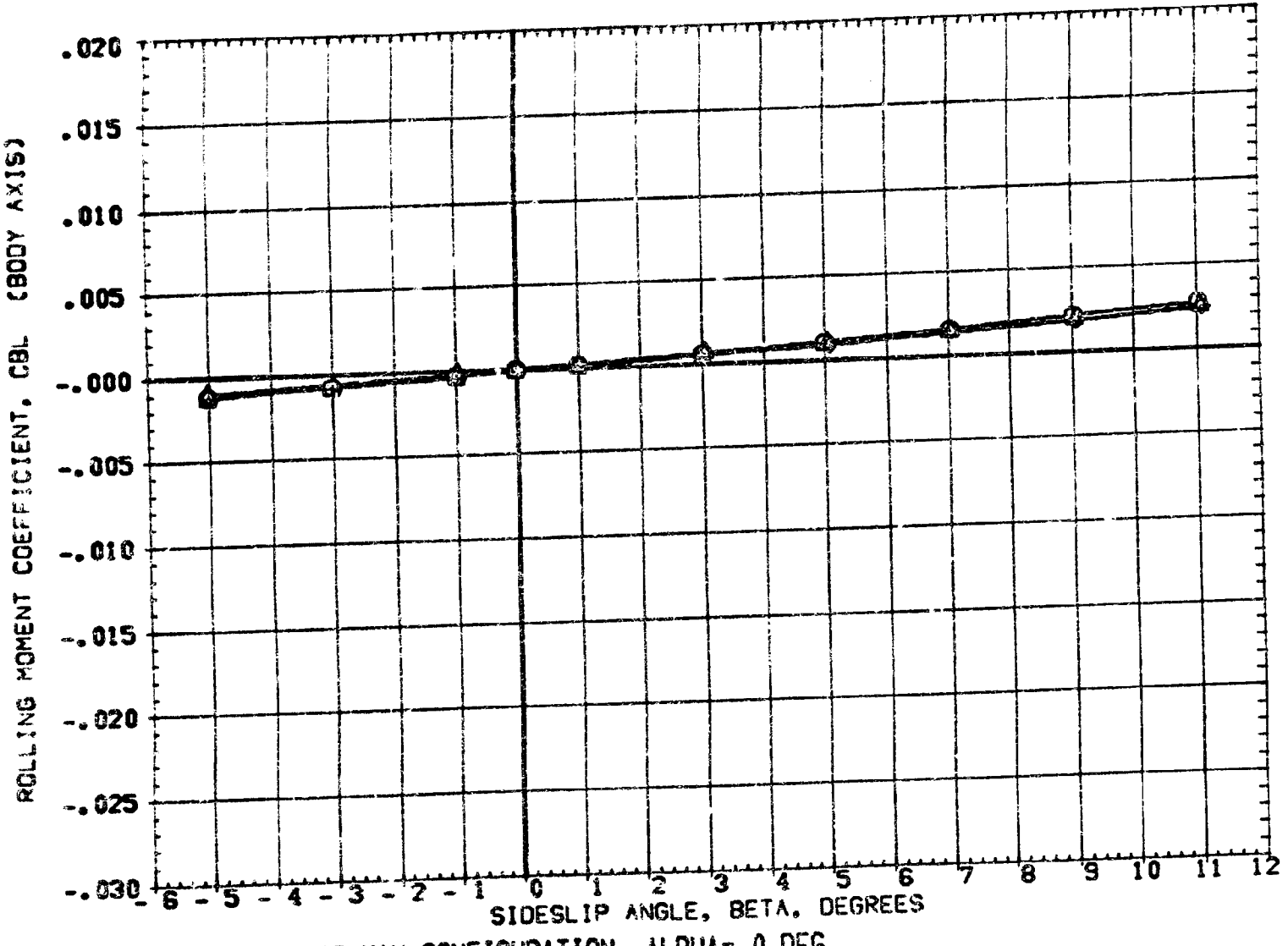


FIG. 33 EFFECT OF MAH CONFIGURATION, ALPHA= 0 DEG.

(A)MACH = 0.26

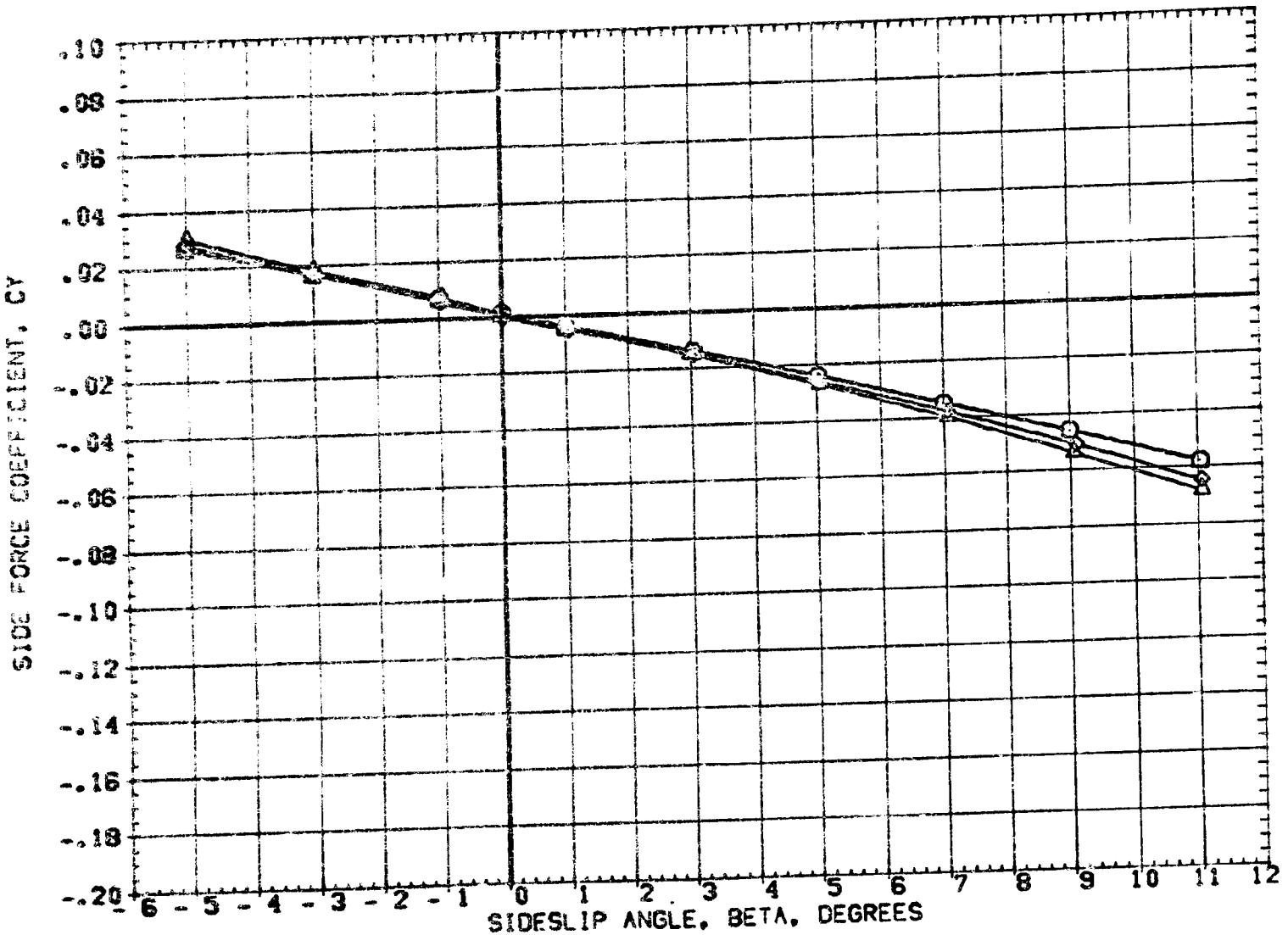


FIG. 34 EFFECT OF MAH CONFIGURATION, ALPHA= 5 DEG.

(A)MACH = 0.26

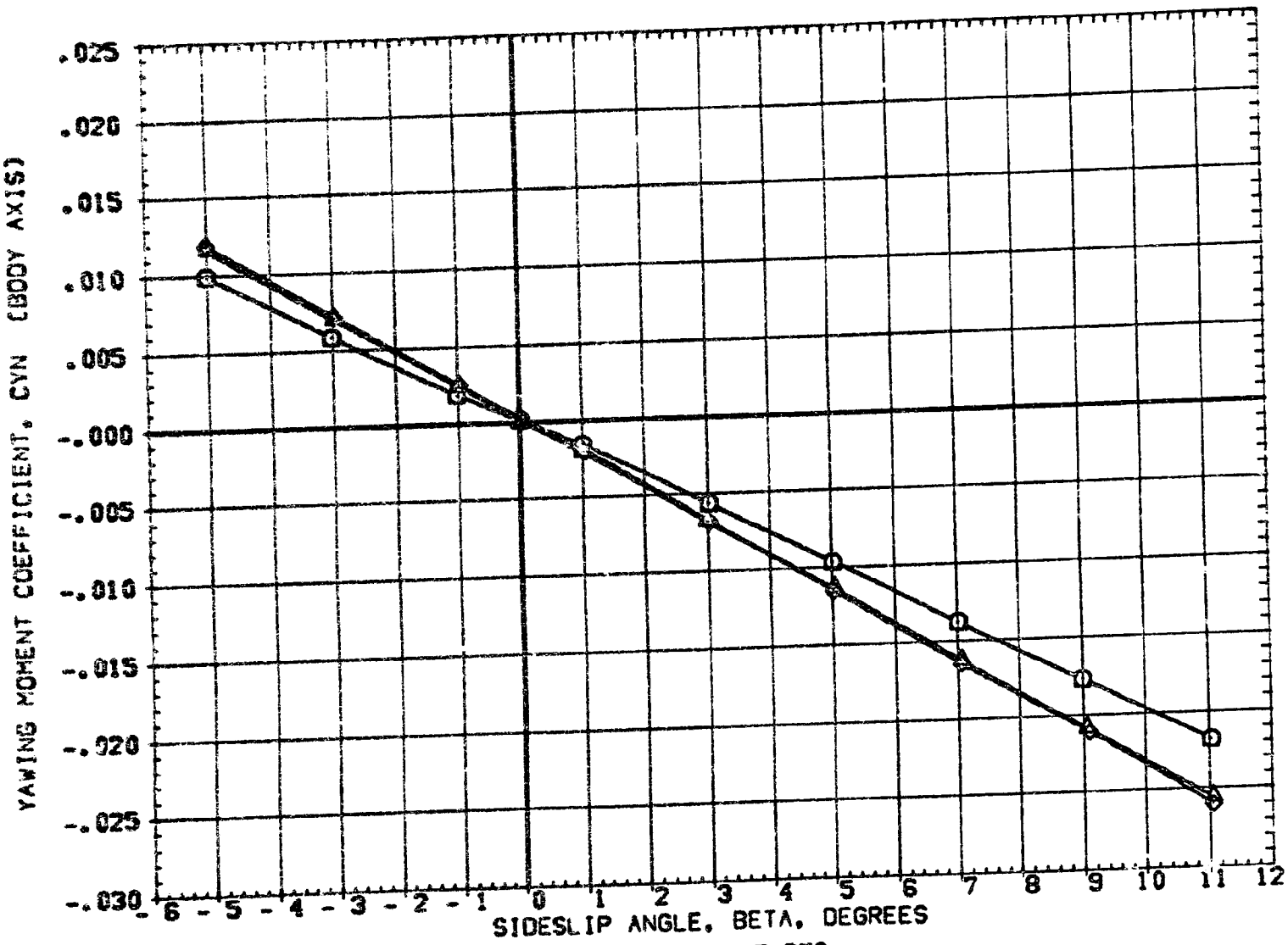


FIG. 34 EFFECT OF MAH CONFIGURATION, ALPHA= 5 DEG.

(A)MACH = 0.26

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ALPHA
(DF5031)	SSV-ATP ORBITER 82	5.000
(DF5019)	SSV-ATP ORBITER 82C202	5.000
(DF5117)	SSV-ATP ORBITER 82C203	5.000

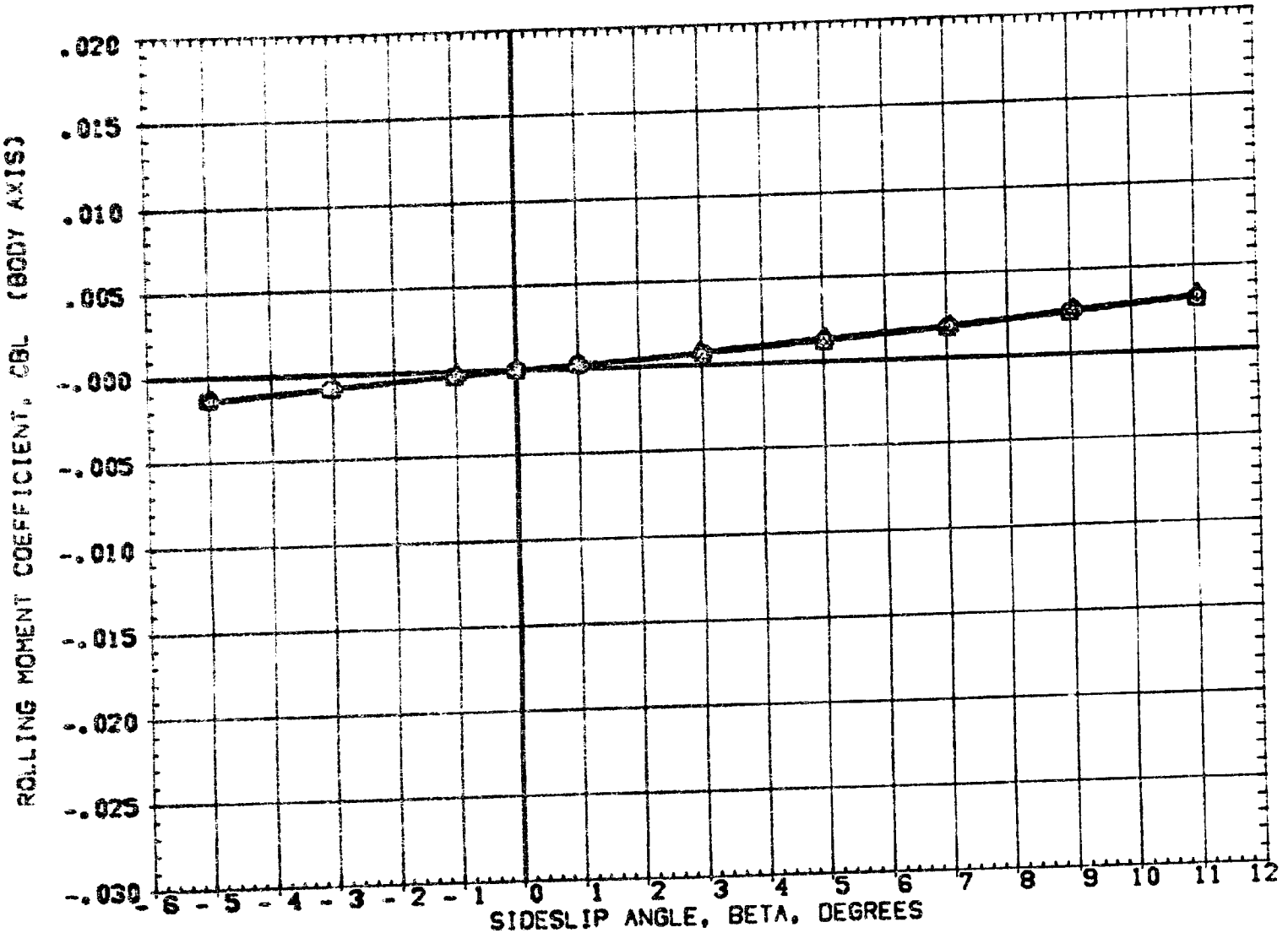


FIG. 34 EFFECT OF MAH CONFIGURATION, ALPHA= 5 DEG.

(A)MACH = 0.26

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ALPHA
(80P004)	33V-ATP ORBITER 82	10.000
(80P011)	33V-ATP ORBITER 82CP02	10.000
(80P019)	33V-ATP ORBITER 82CP03	10.000

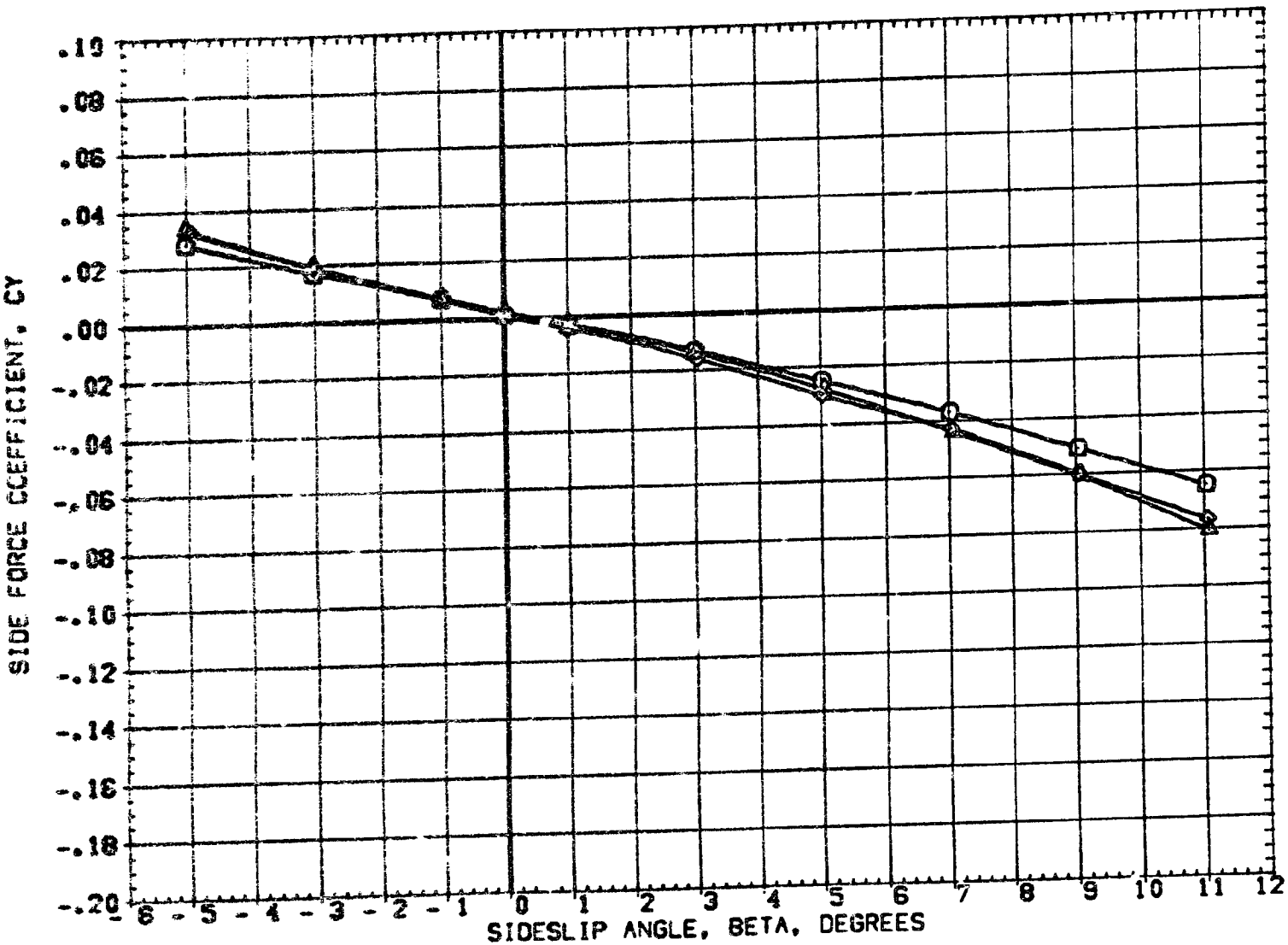


FIG. 35 EFFECT OF MAH CONFIGURATION, ALPHA= 10 DEG.

(A)MACH = 0.26

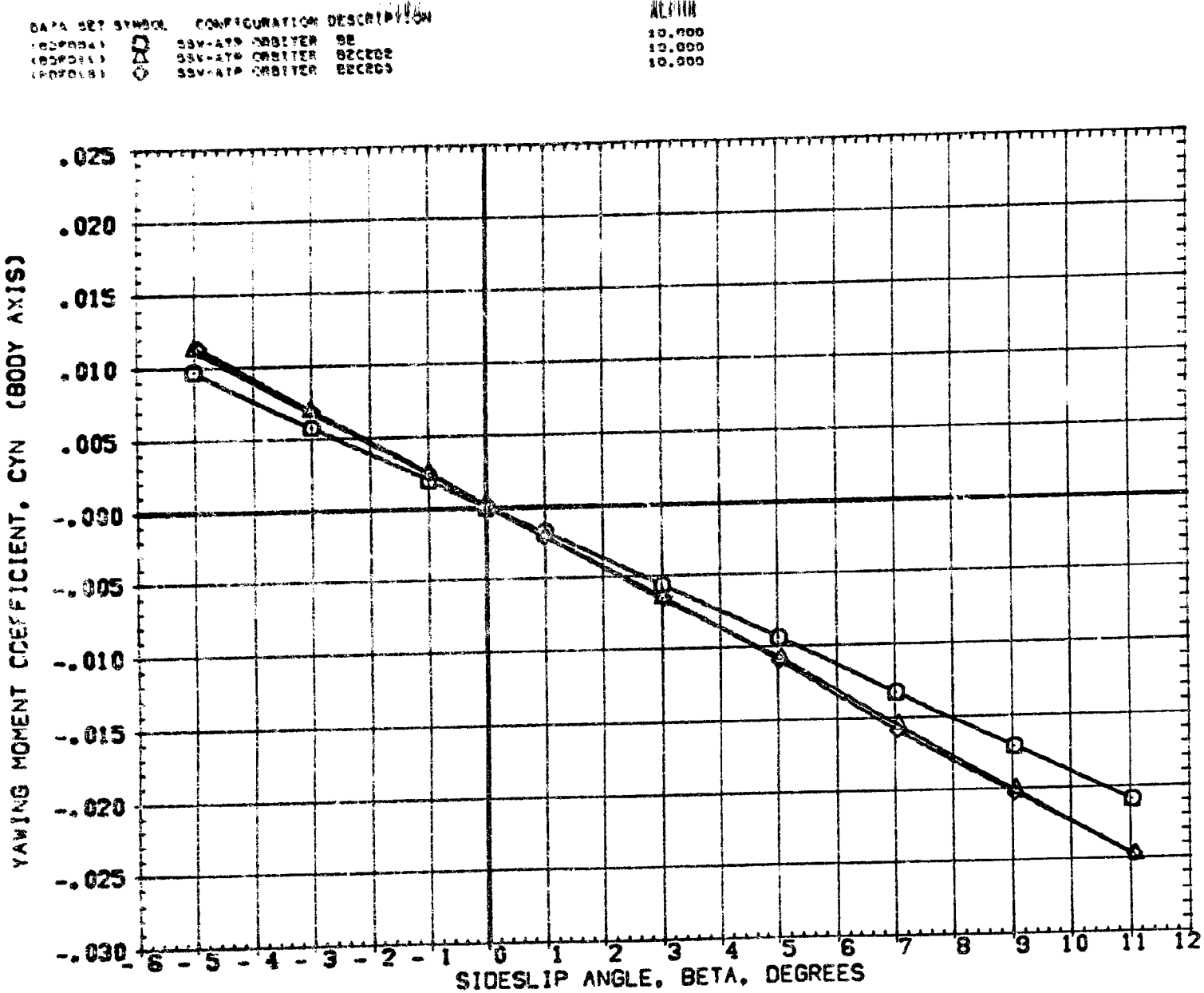


FIG. 35 EFFECT OF MAN CONFIGURATION, ALPHA= 10 DEG.

(A)MACH = 0.26

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	ALPHA
(80F034)	□	SSV-ATP ORBITER B2	10.000
(80F011)	○	SSV-ATP ORBITER B2C2D2	10.000
(80F016)	◇	SSV-ATP ORBITER B2C2D3	10.000

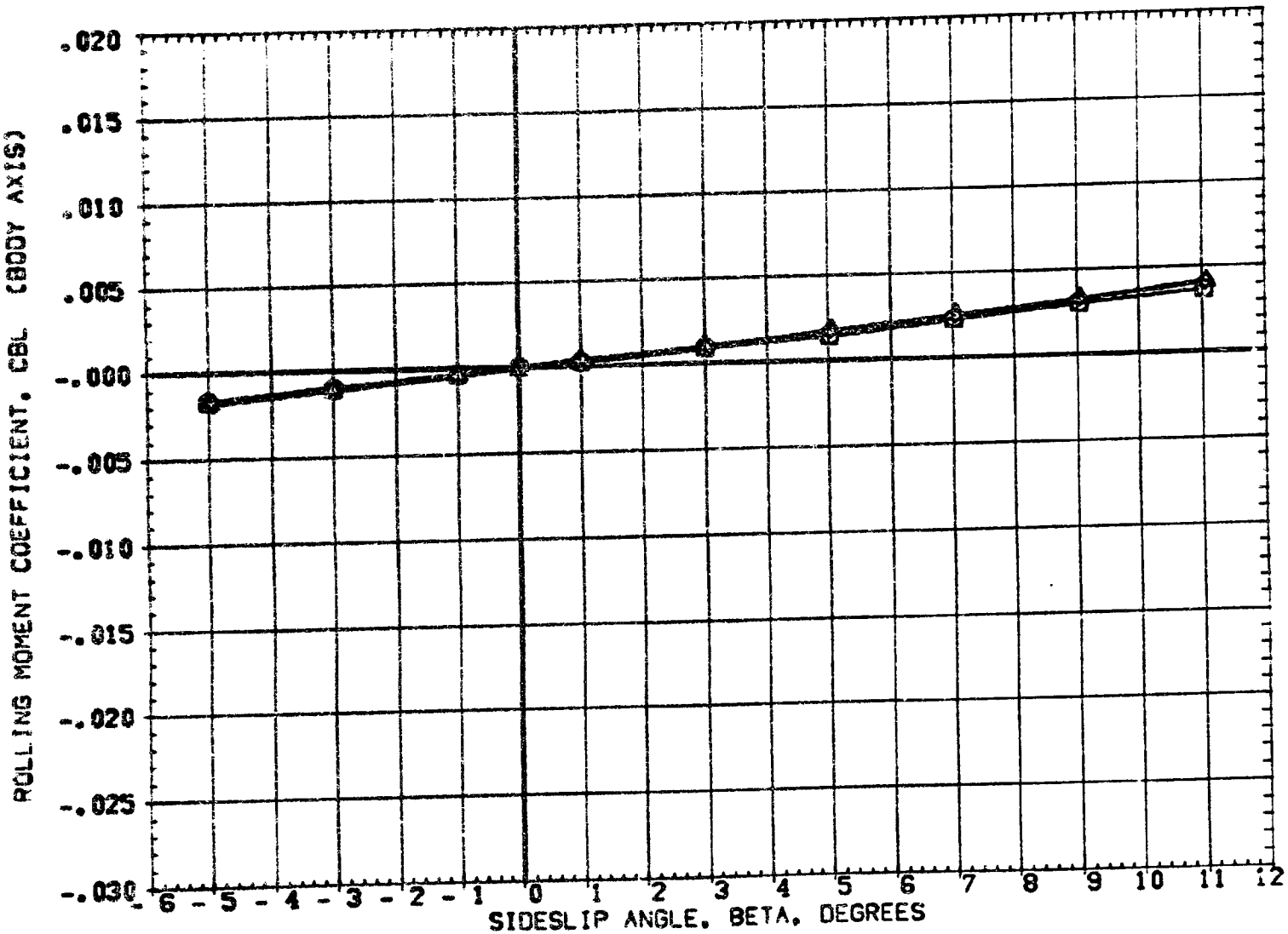


FIG. 35 EFFECT OF MAH CONFIGURATION, ALPHA= 10 DEG.

(A)MACH = 0.26

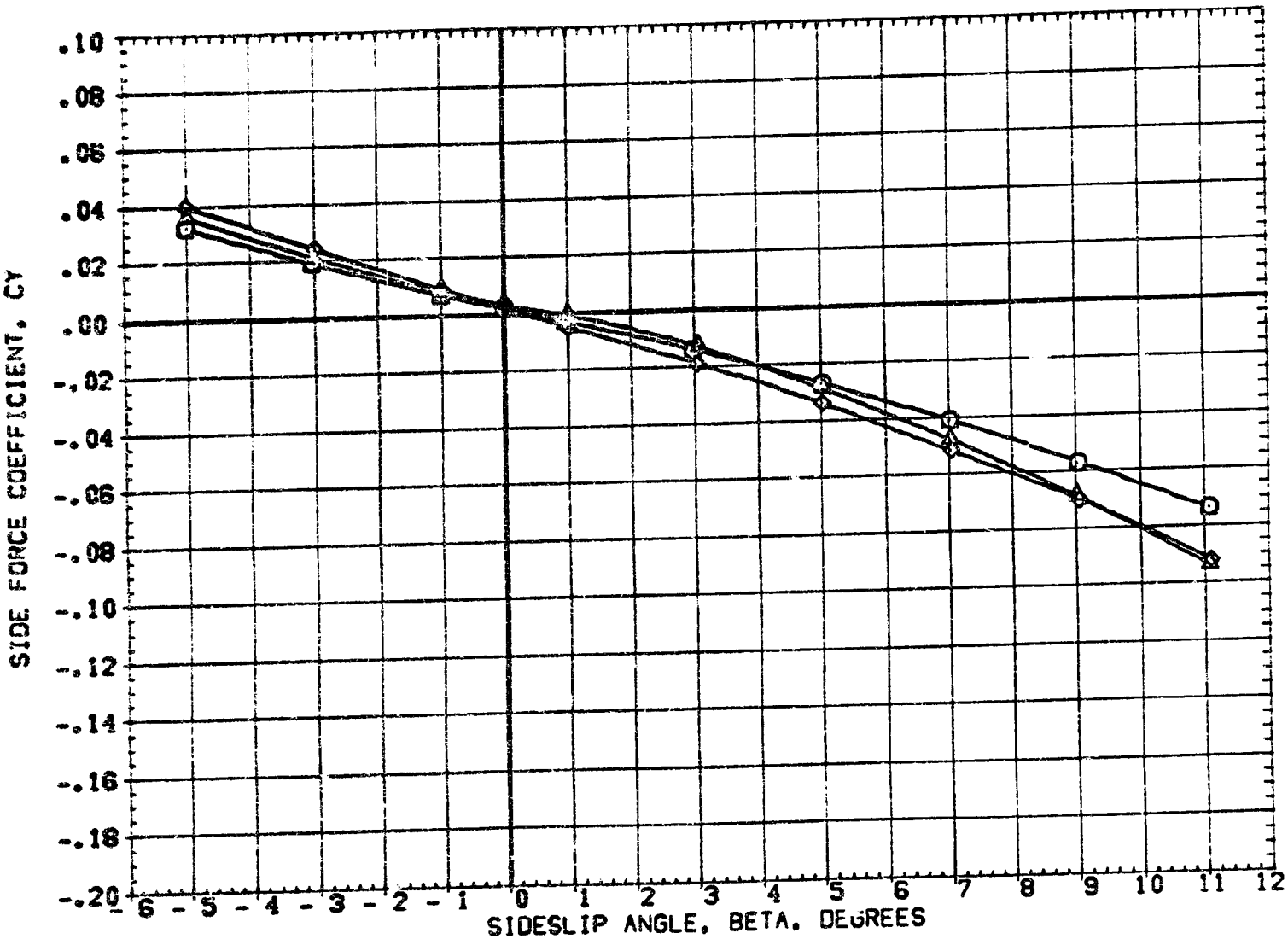


FIG. 36 EFFECT OF MAH CONFIGURATION, ALPHA= 15 DEG.

(A)MACH = 0.25

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ALPHA
(BDF003)	SSV-ATP ORBITER 82	15.000
(BDF012)	SSV-ATP ORBITER 82C802	15.000
(BDF019)	SSV-ATP ORBITER 82C203	15.000

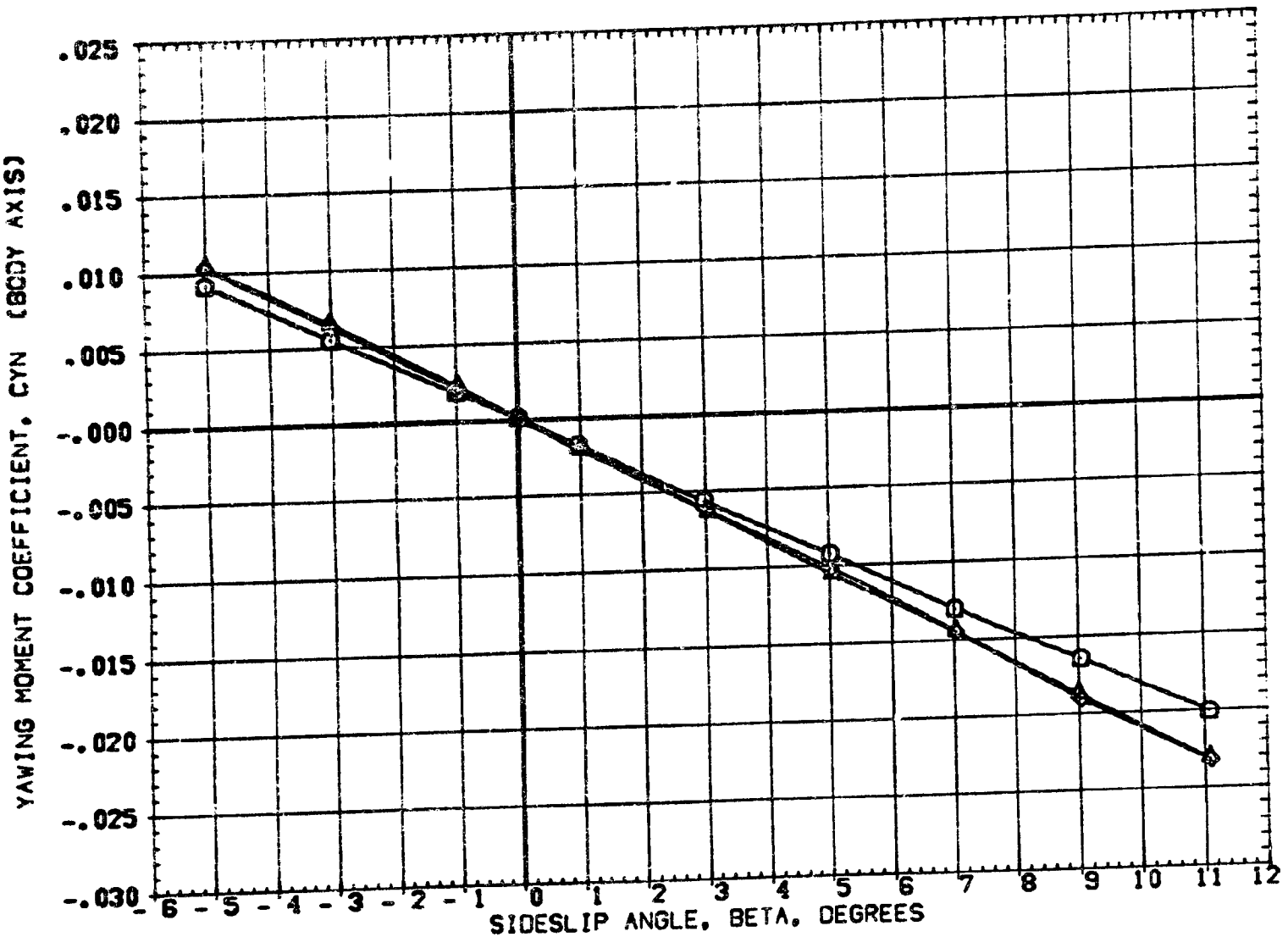


FIG. 36 EFFECT OF MAH CONFIGURATION, ALPHA= 15 DEG.

(A)MACH = 0.26

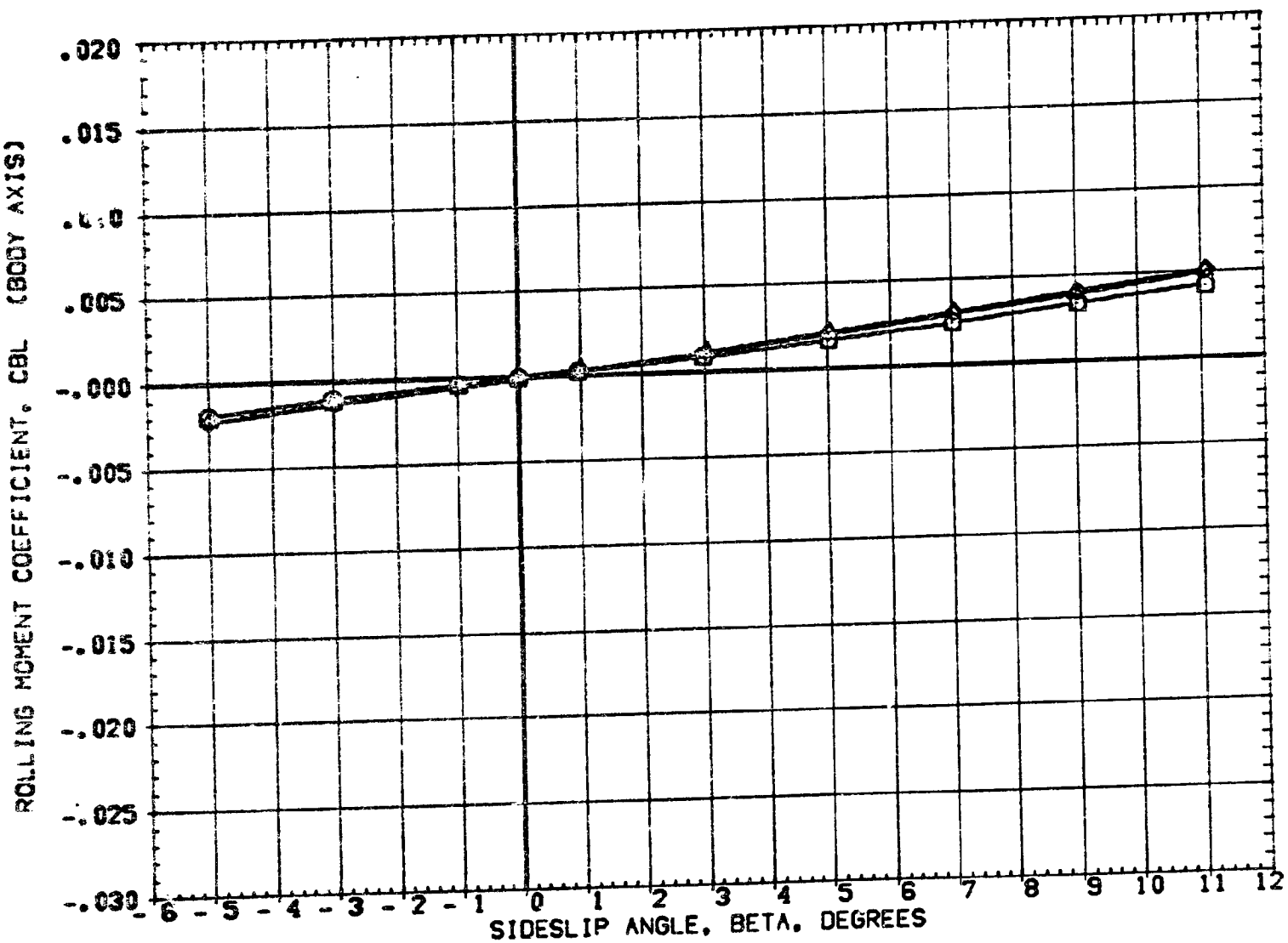


FIG. 36 EFFECT OF MAH CONFIGURATION, ALPHA= 15 DEG.

(A)MACH = 0.26

DATA SET SYMBOL		CONFIGURATION DESCRIPTION	ALPHA
(85P206)	□	SSV-ATP ORBITER B2	18.000
(85P213)	◇	SSV-ATP ORBITER B2C202	18.000
(85P220)	◇	SSV-ATP ORBITER B2C203	18.000

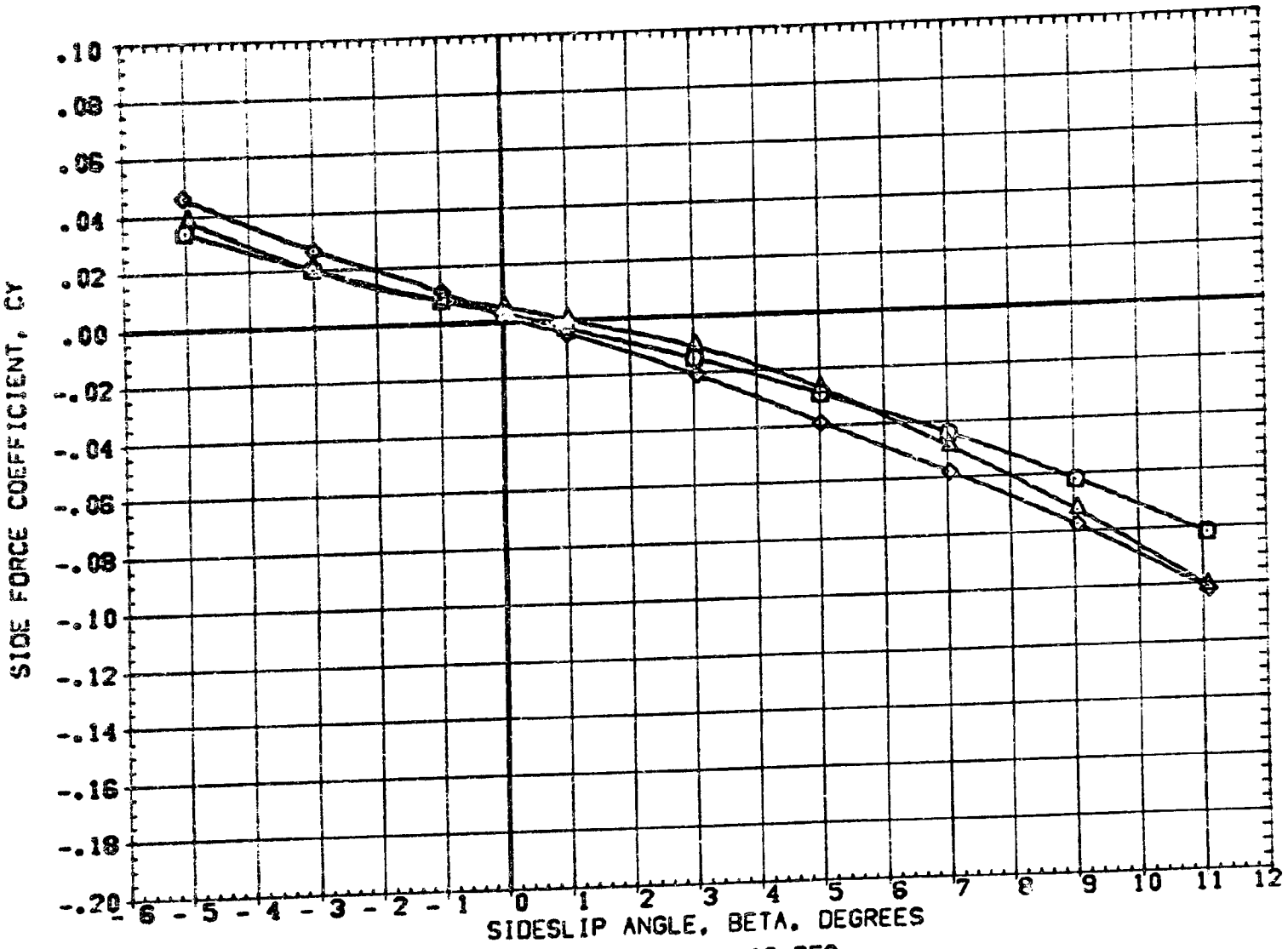


FIG. 37 EFFECT OF MAH CONFIGURATION, ALPHA= 18 DEG.

(A)MACH = 0.26

DATA SET SYMBOL		CONFIGURATION DESCRIPTION	ALPHA
(80P008)	○	SSV-ATP ORBITER B2	18.000
(80P013)	□	SSV-ATP ORBITER B2CB2	18.000
(80P020)	◇	SSV-ATP ORBITER B2CB3	18.000

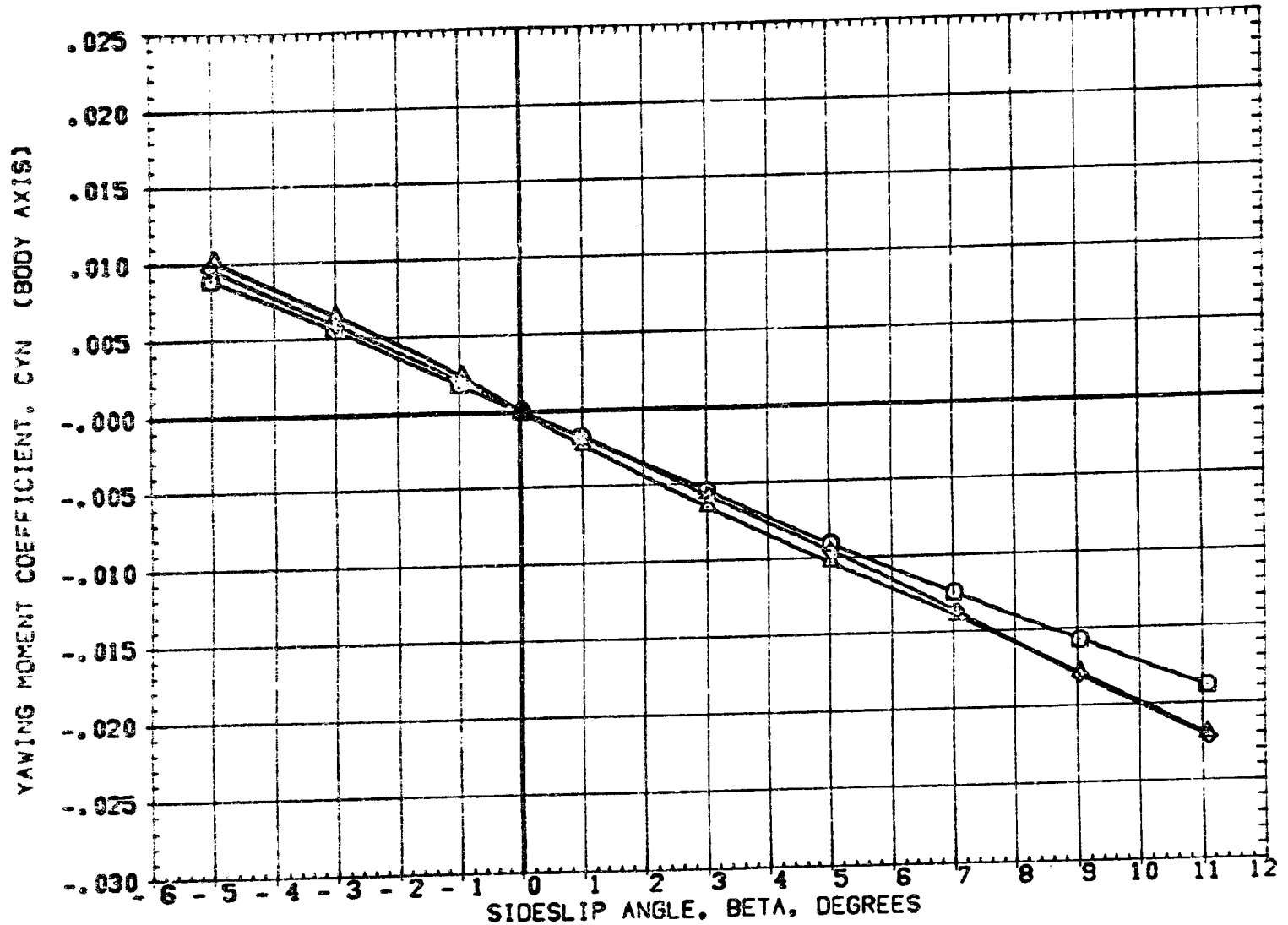


FIG. 37 EFFECT OF MAH CONFIGURATION, ALPHA= 18 DEG.

(A)MACH = 0.26

DATA SET SYMBOL		CONFIGURATION DESCRIPTION	ALPHA
(82F203)	○	SSV-ATP ORBITER 82	18.000
(82F213)	◇	SSV-ATP ORBITER 82C202	18.000
(82F223)	◇	SSV-ATP ORBITER 82C203	18.000

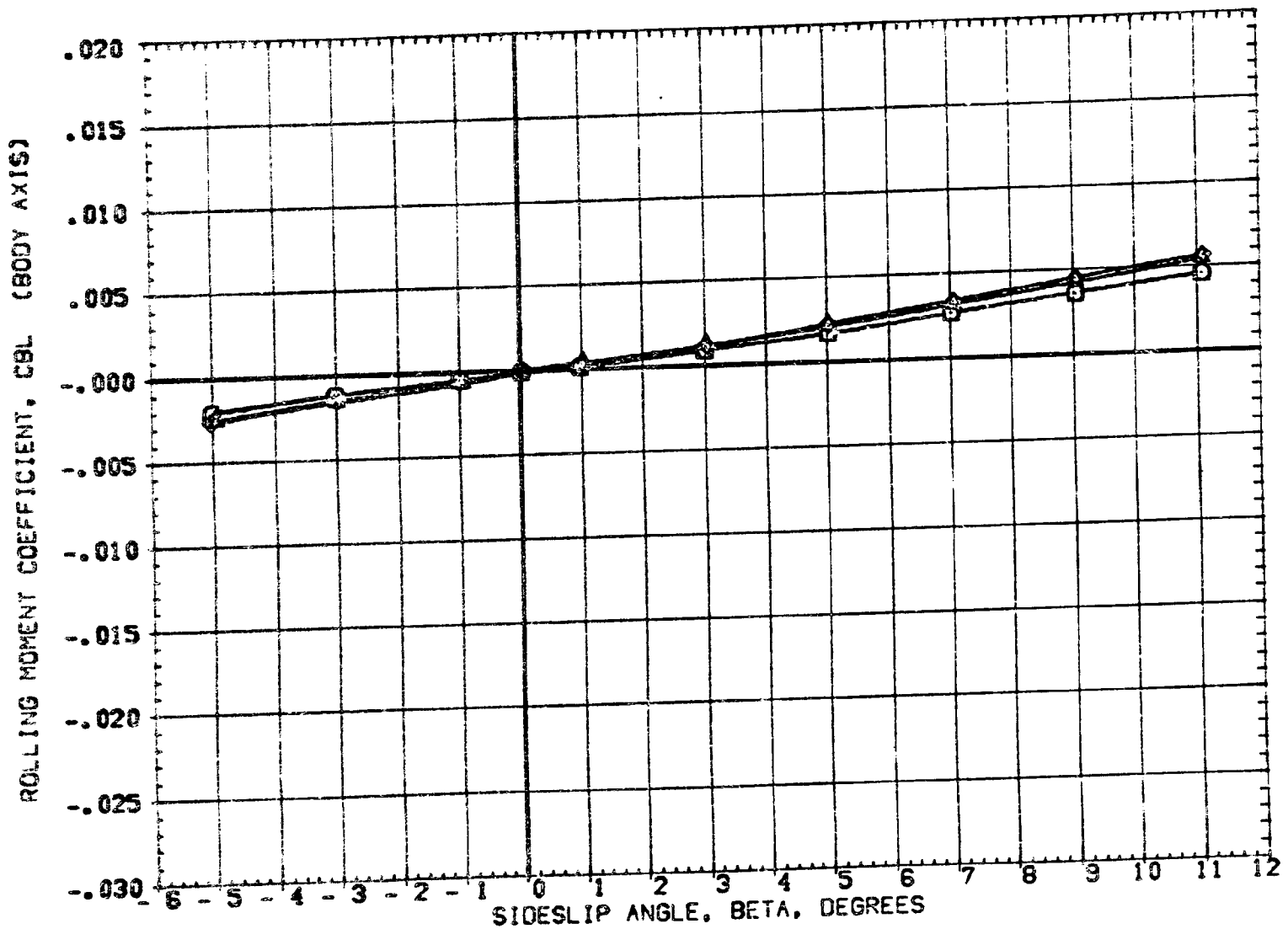


FIG. 37 EFFECT OF MAH CONFIGURATION, ALPHA= 18 DEG.

(A)MACH = 0.28

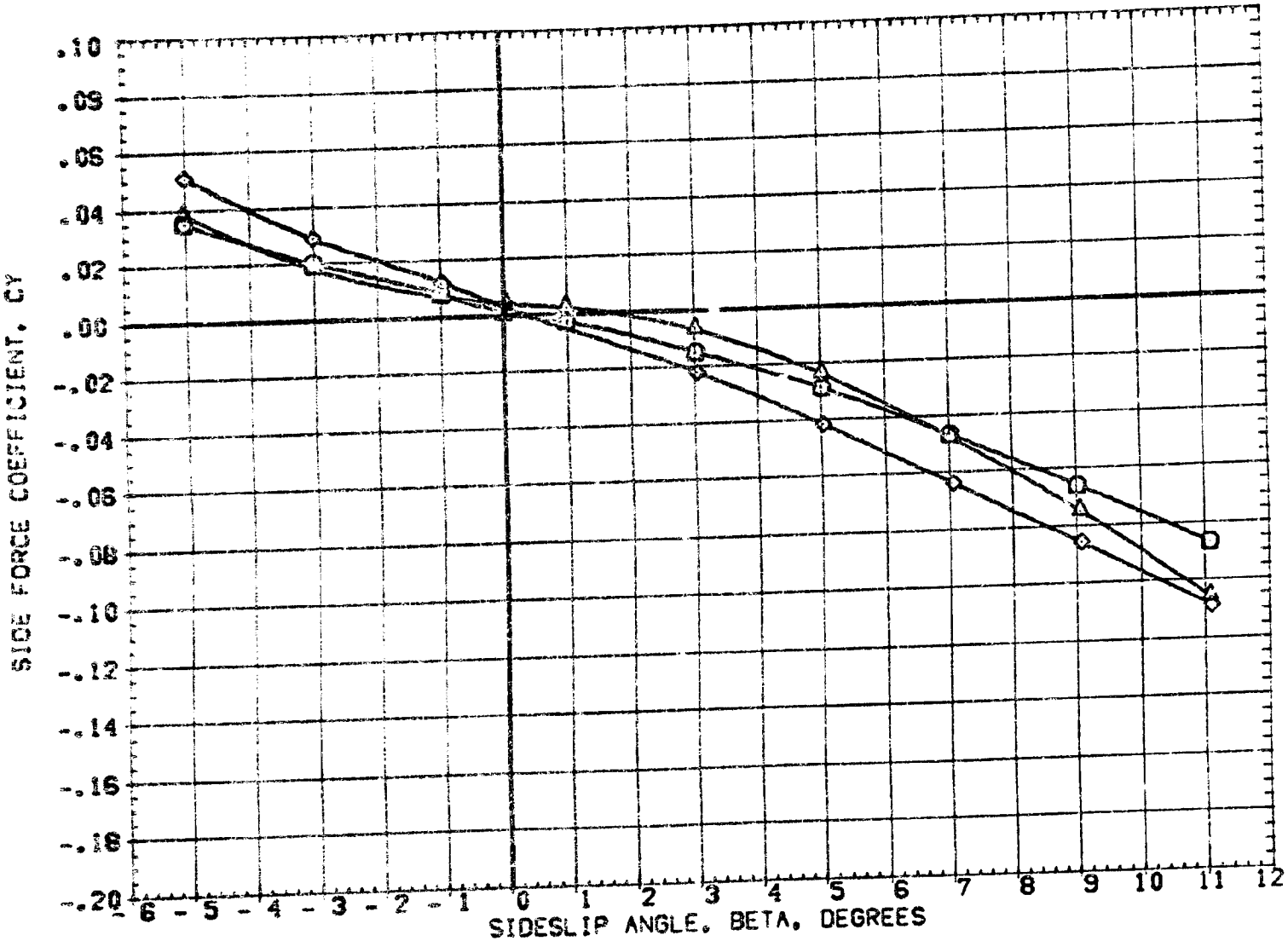


FIG. 38 EFFECT OF MAH CONFIGURATION, ALPHA= 20 DEG.

(A)MACH = 0.26

REPRODUCIBILITY OF THE ORIGINAL PAGE IS POOR

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ALPHA
[illegible]	SSV-ATP ORBITER 82	20.000
[illegible]	SSV-ATP ORBITER 82C02E	20.000
[illegible]	SSV-ATP ORBITER 82C03	20.000

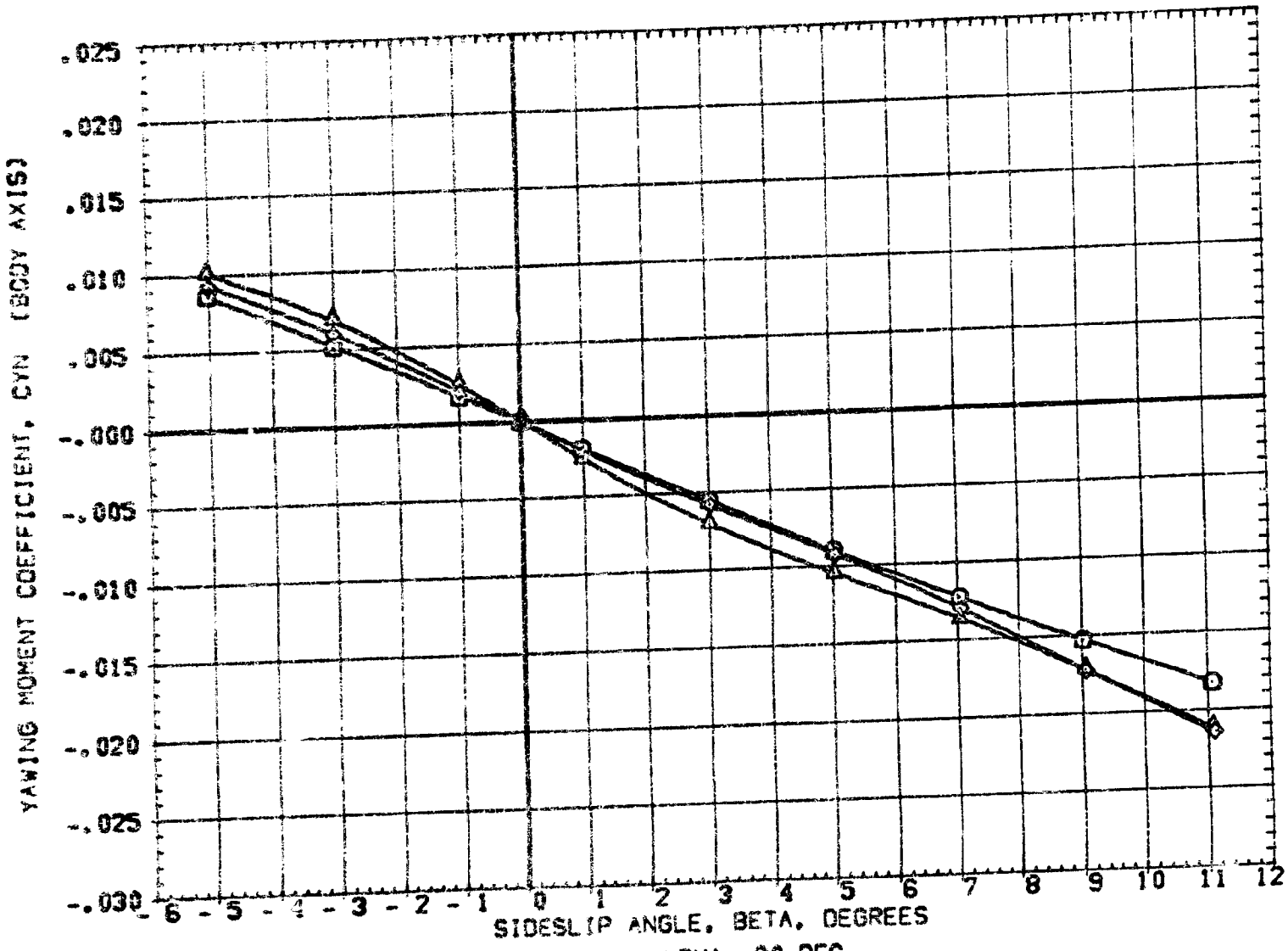


FIG. 38 EFFECT OF MAH CONFIGURATION, ALPHA= 20 DEG.

(A)MACH = 0.26

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ALPHA
8970071	33V-ATP ORBITER 82	20.000
8970161	33V-ATP ORBITER 82CB2	20.000
8970811	33V-ATP ORBITER 82CB2	20.000

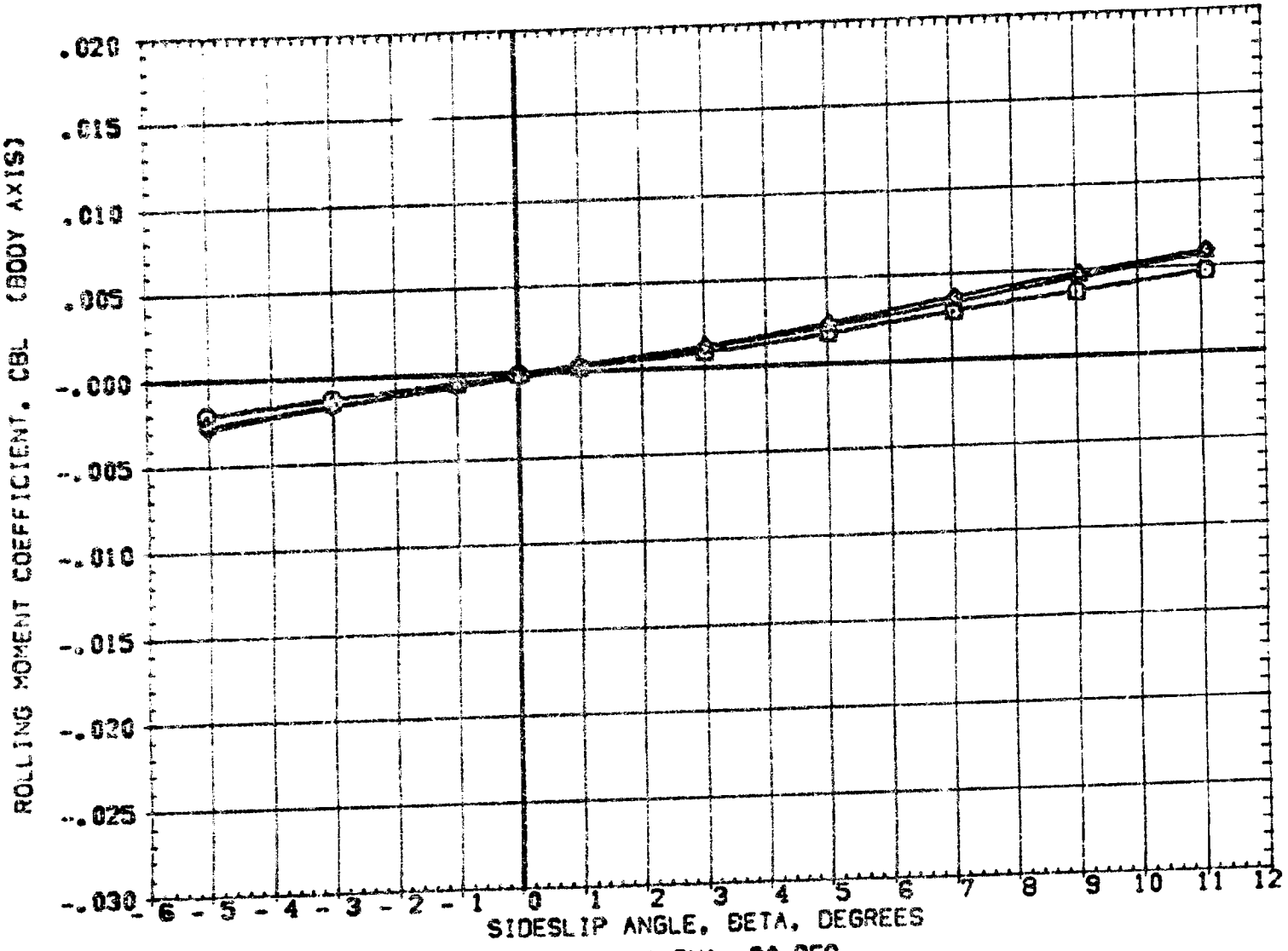


FIG. 38 EFFECT OF MAH CONFIGURATION, ALPHA= 20 DEG.

(A)MACH = 0.26

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(40F082)	○	55V-ATP ORBITER 02CF02M1F1W2V3R2
(40F084)	△	55V ATP ORBITER 02CZ02M1F1W2V3R2
(40F092)	◇	55V-ATP ORBITER 02CZ02M1F1W1E2V3R2

MACH	BETA	ELEVON
0.165	0.000	
0.260	0.000	
0.960	0.000	-5.000

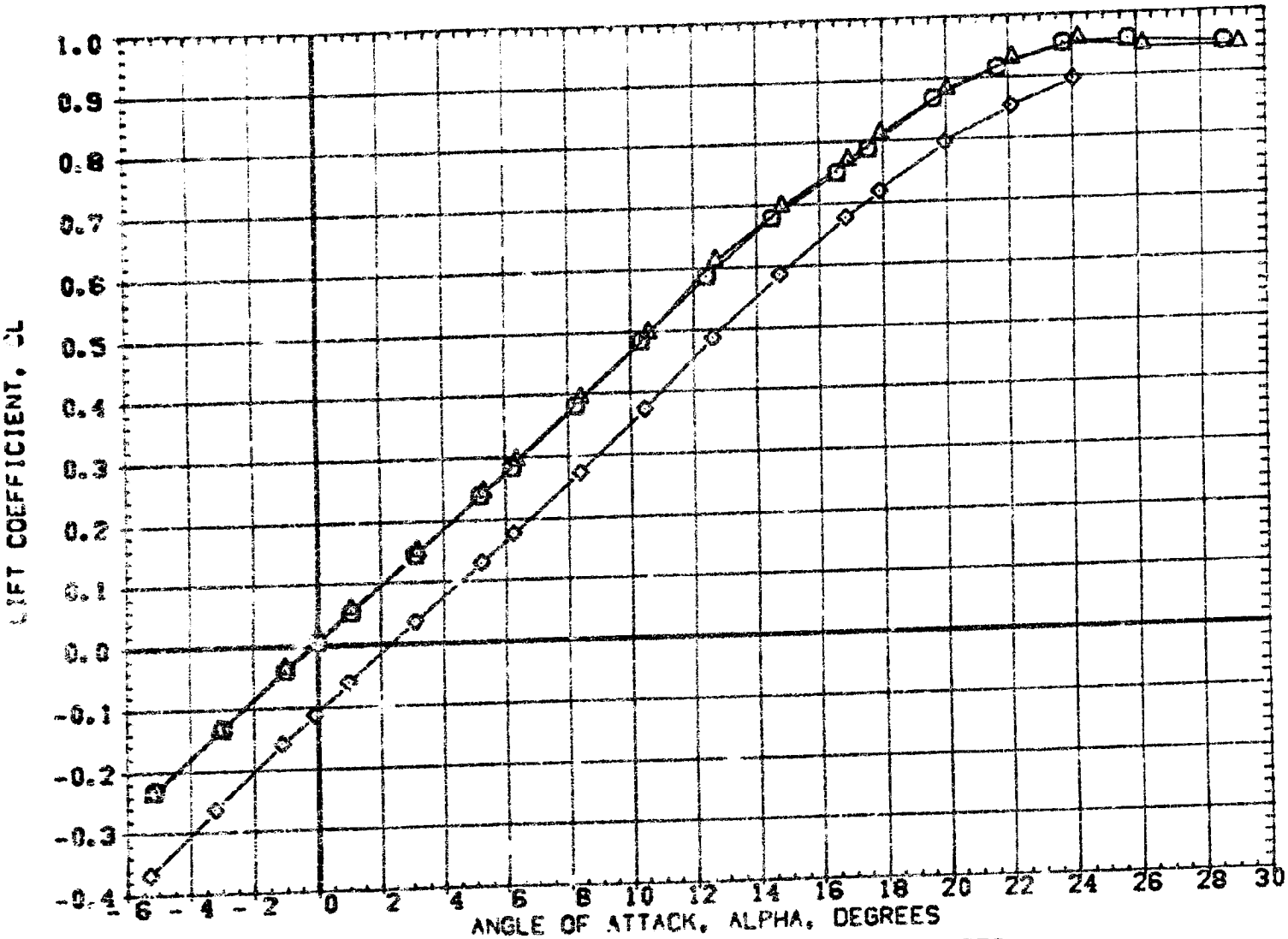


FIG. 39 REYNOLDS NUMBER EFFECT AND ELEVON EFFECT, BETA= 0 DEG.

(A)MACH = 0.16

RUN	KEY SYMBOL	CONFIGURATION DESCRIPTION			
(AR2065)	○	SSV-ATP ORBITER	0.165	0.000	
(AR2066)	△	SSV-ATP ORBITER	0.260	0.000	
(AR2067)	◇	SSV-ATP ORBITER	0.260	0.000	-5.000

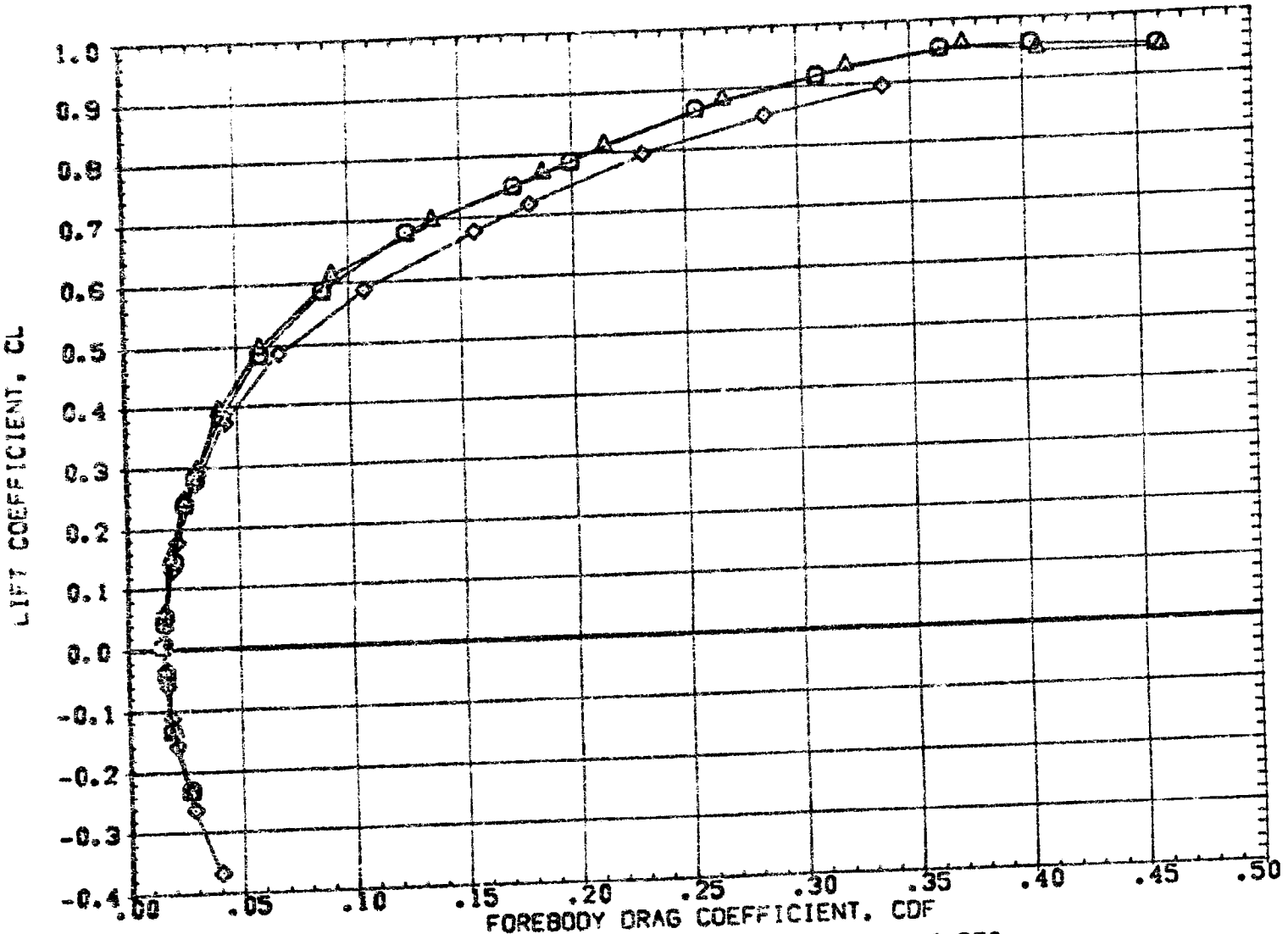


FIG. 39 REYNOLDS NUMBER EFFECT AND ELEVON EFFECT, BETA= 0 DEG.

(A)MACH = 0.16

DATA SET SYMBOL	CONFIGURATION DESCRIPTION
(ACF0681)	SSV-ATP ORBITER B2C2D2X1F1W2V3K2
(ACF0682)	SSV-ATP ORBITER B2C2D2M1F1W2V3K2
(ACF0683)	SSV-ATP ORBITER B2C2D2M1F1W2E2V3K2

MACH	BETA	ELEVON
0.165	0.000	
0.260	0.000	
0.260	0.000	-5.000

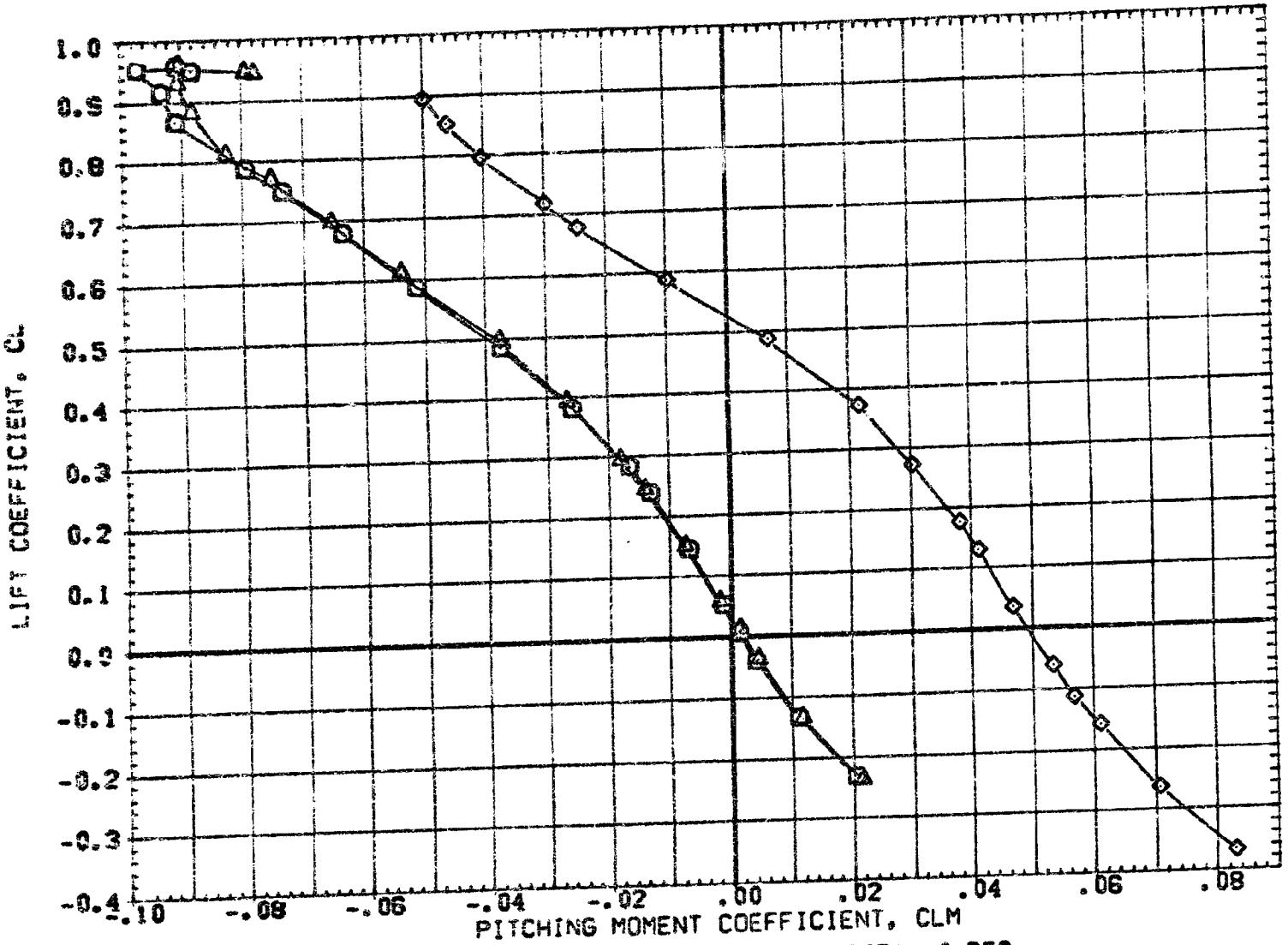


FIG. 39 REYNOLDS NUMBER EFFECT AND ELEVON EFFECT, BETA= 0 DEG.

(A)MACH = 0.16

DATA SET SYMBOL	CONFIGURATION DESCRIPTION			
(A)REF83	83V-ATP ORBITER	82CC02H1F1W2V3K2	0.160	0.000
(A)REF84	83V-ATP ORBITER	82CC02H1F1W2V3K2	0.280	0.000
(A)REF85	83V-ATP ORBITER	82CC02H1F1W2C2V3K2	0.280	0.000 -5.000

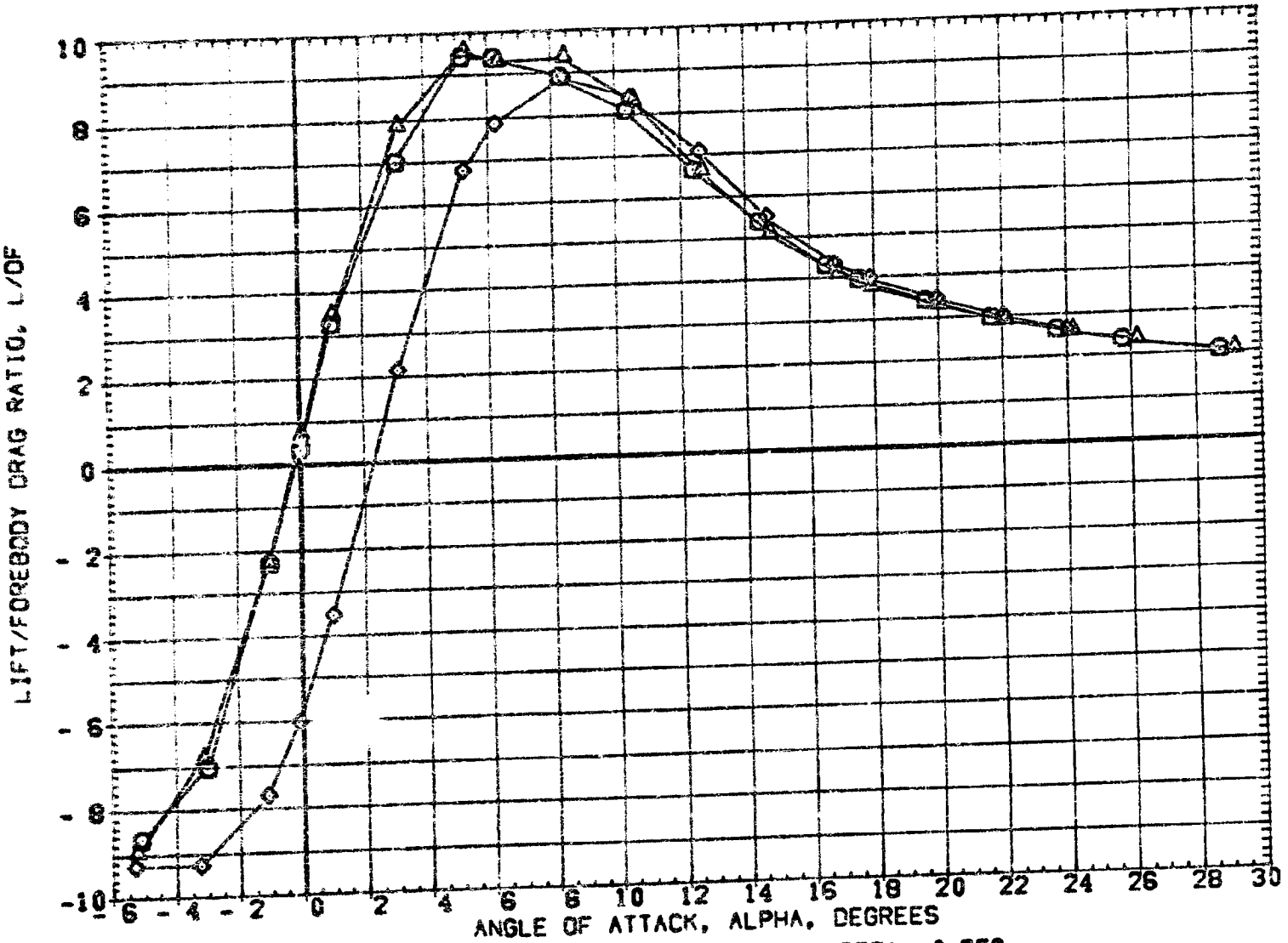


FIG. 39 REYNOLDS NUMBER EFFECT AND ELEVON EFFECT, BETA= 0 DEG.

(A)MACH = 0.16

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	MACH	BETA	ELEVON
(ADFD63)	3SV-ATP ORBITER B2C2D2M1F1W2V3R2	0.165	0.000	
(ADFD64)	3SV-ATP ORBITER B2C2D2M1F1W2V3R2	0.260	0.000	
(ADFD65)	3SV-ATP ORBITER B2C2D2M1F1W2E2V3R2	0.260	0.000	-5.000

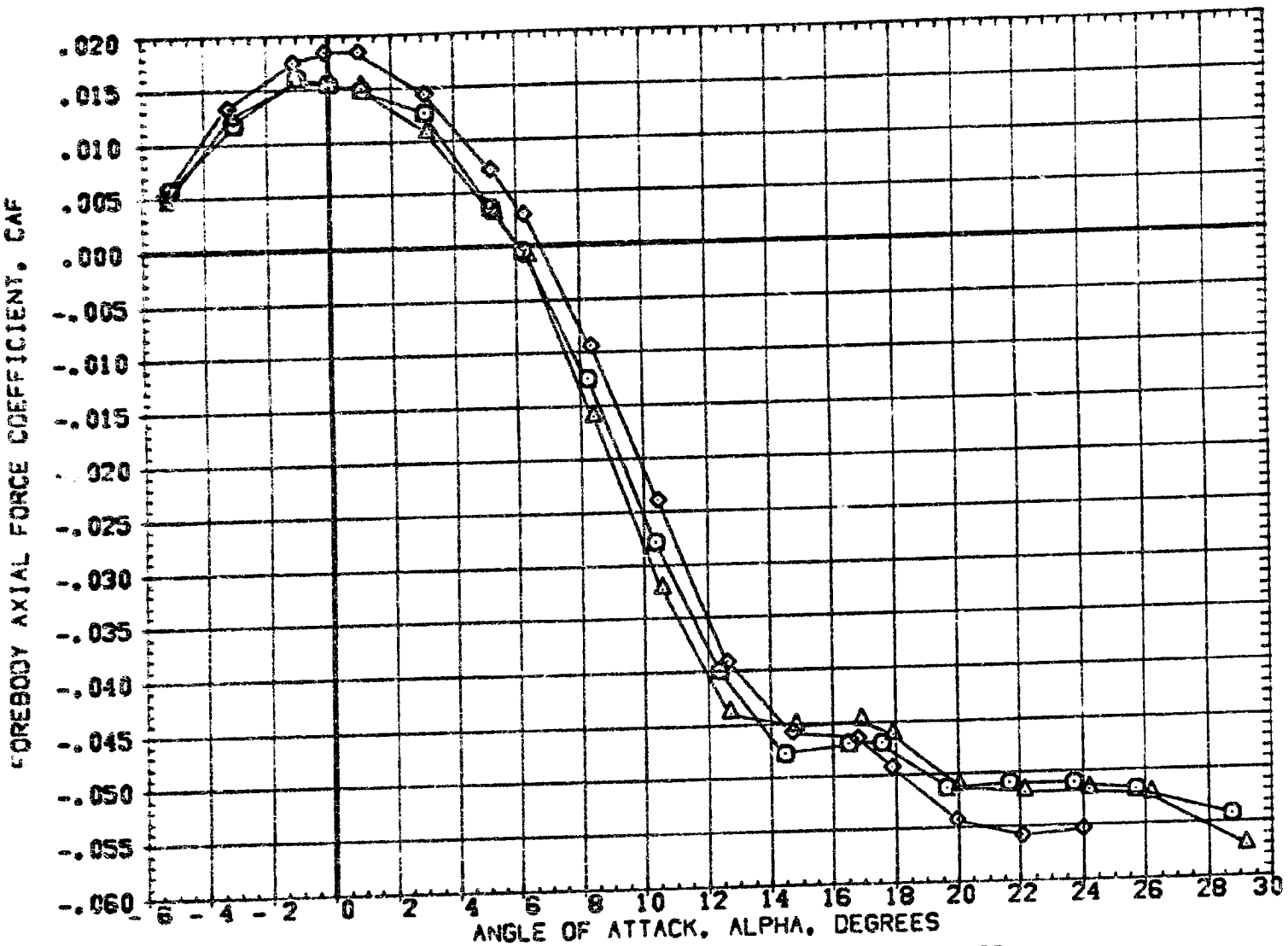


FIG. 39 REYNOLDS NUMBER EFFECT AND ELEVON EFFECT, BETA= 0 DEG.

(A)MACH = 0.16

DATA SET SYMBOL	CONFIGURATION DESCRIPTION
(A)OF033	33V-ATP ORBITER B2C2D2M1F1W2V3R2
(A)OF034	33V-ATP ORBITER B2C2D2M1F1W2V3R2
(A)OF047	33V-ATP ORBITER B2C2D2M1F1WCE2V3R2

MACH	BETA	DOD
0.160	0.000	
0.260	0.000	
0.280	0.000	-5.000

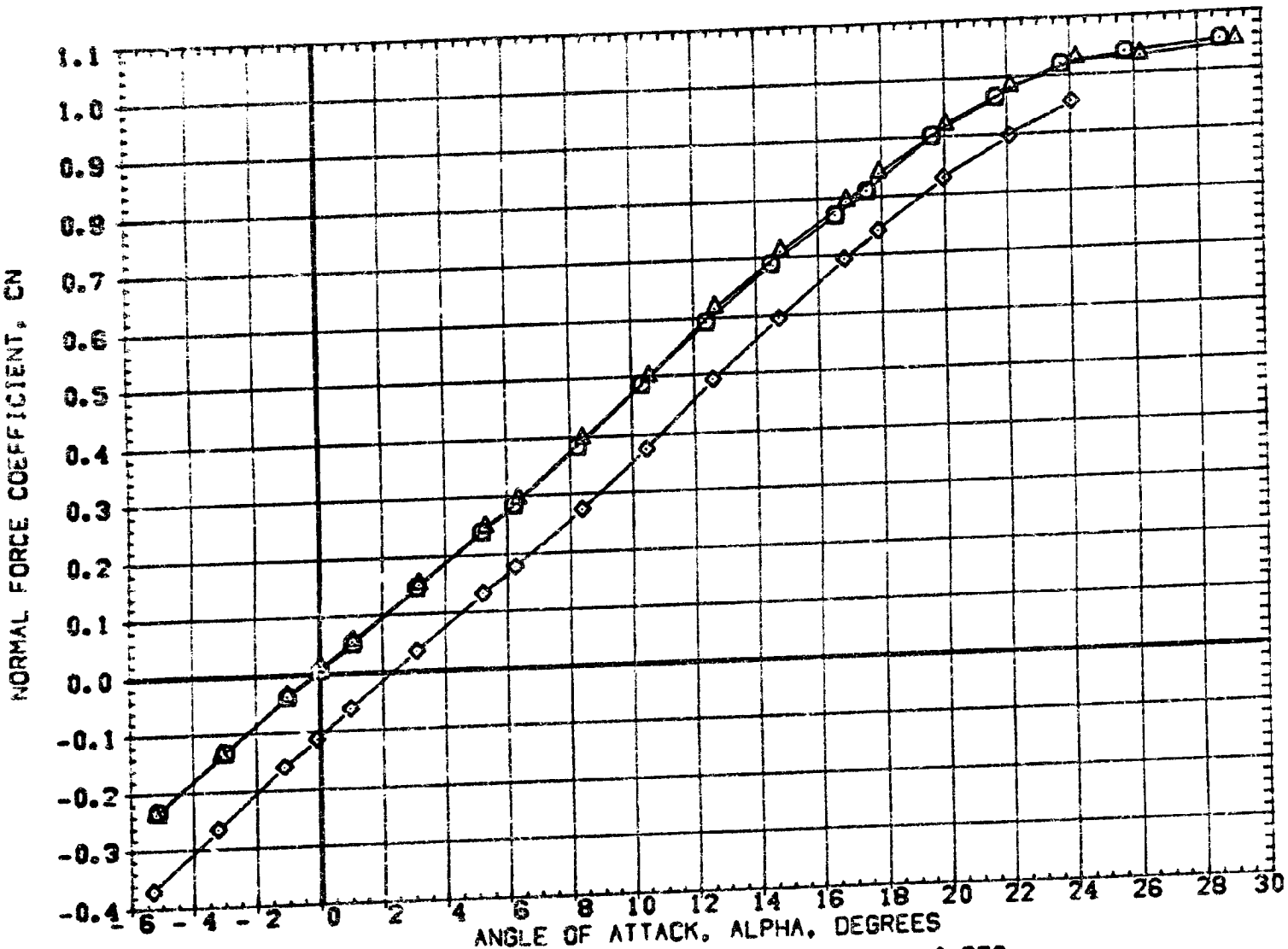


FIG. 39 REYNOLDS NUMBER EFFECT AND ELEVON EFFECT, BETA= 0 DEG.

(A)MACH = 0.16

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	MACH	BETA	ELEVON
(ADF085)	◇	55V-ATP ORBITER B2C2D2M1F1W2V3R2	0.165	0.000	
(ADF084)	△	55V-ATP ORBITER B2C2D2M1F1W2V3R2	0.260	0.000	
(ADF087)	○	55V-ATP ORBITER B2C2D2M1F1W2E2V3R2	0.260	0.000	-5.000

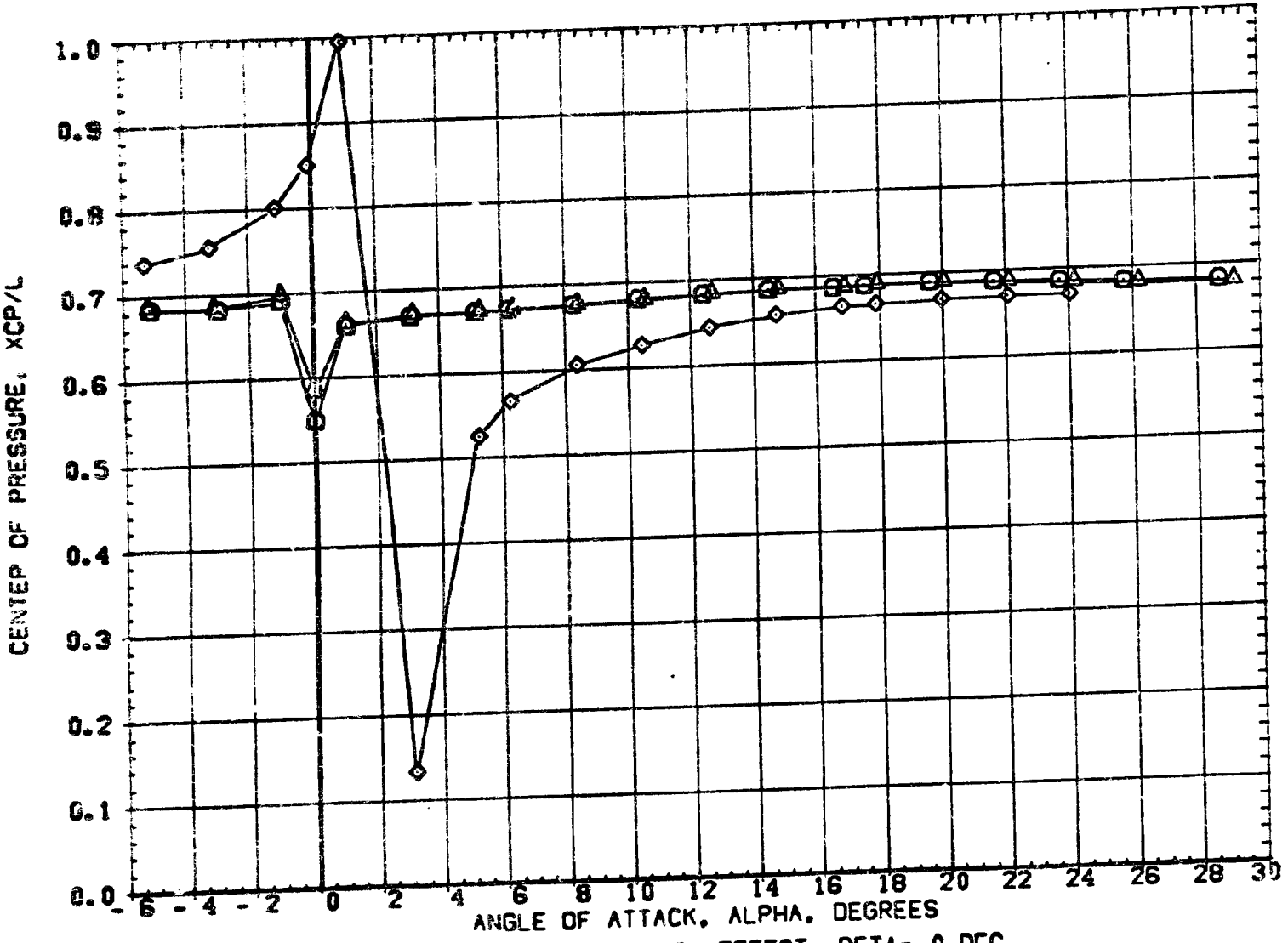


FIG. 39 REYNOLDS NUMBER EFFECT AND ELEVON EFFECT, BETA= 0 DEG.

(A)MACH = 0.16

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	MACH	BETA	ELEVON
(ADP3063)	35Y-ATP ORBITER B2C2D2W1F1W2V3R2	0.135	0.000	
(ADP3064)	35Y-ATP ORBITER B2C2D2W1F1W2V3R2	0.260	0.000	
(ADP3049)	35Y-ATP ORBITER B2C2D2W1F1W2E2V3R2	0.260	0.000	-5.000

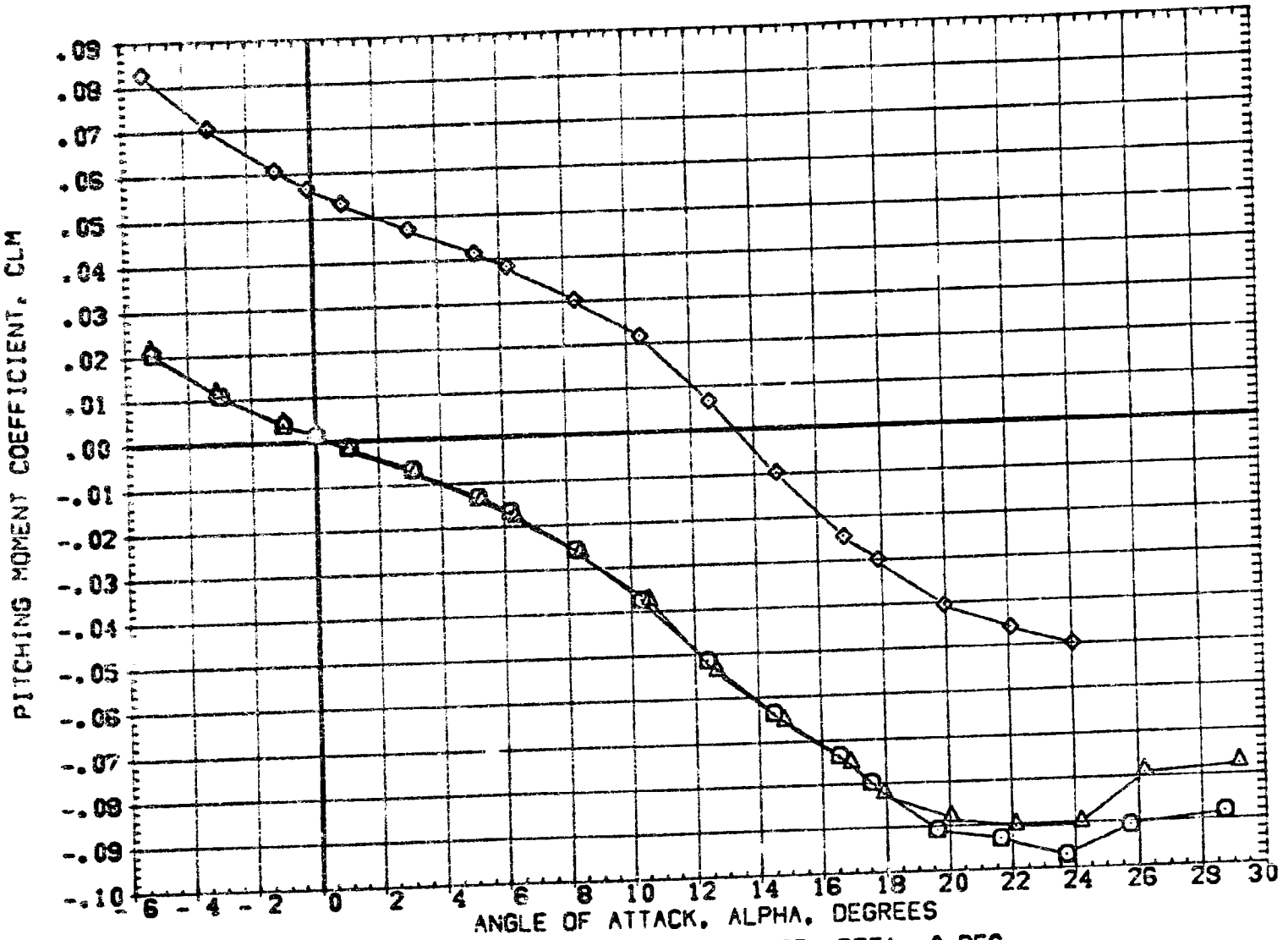


FIG. 39 REYNOLDS NUMBER EFFECT AND ELEVON EFFECT, BETA= 0 DEG.

(A)MACH = 0.16

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA
(OOYO64)	33V-ATP ORBITER B2C2D2M1F1W2V3K2	0.000
(OOYO71)	33V-ATP ORBITER B2C2D2M1F1W2V3K2	5.000

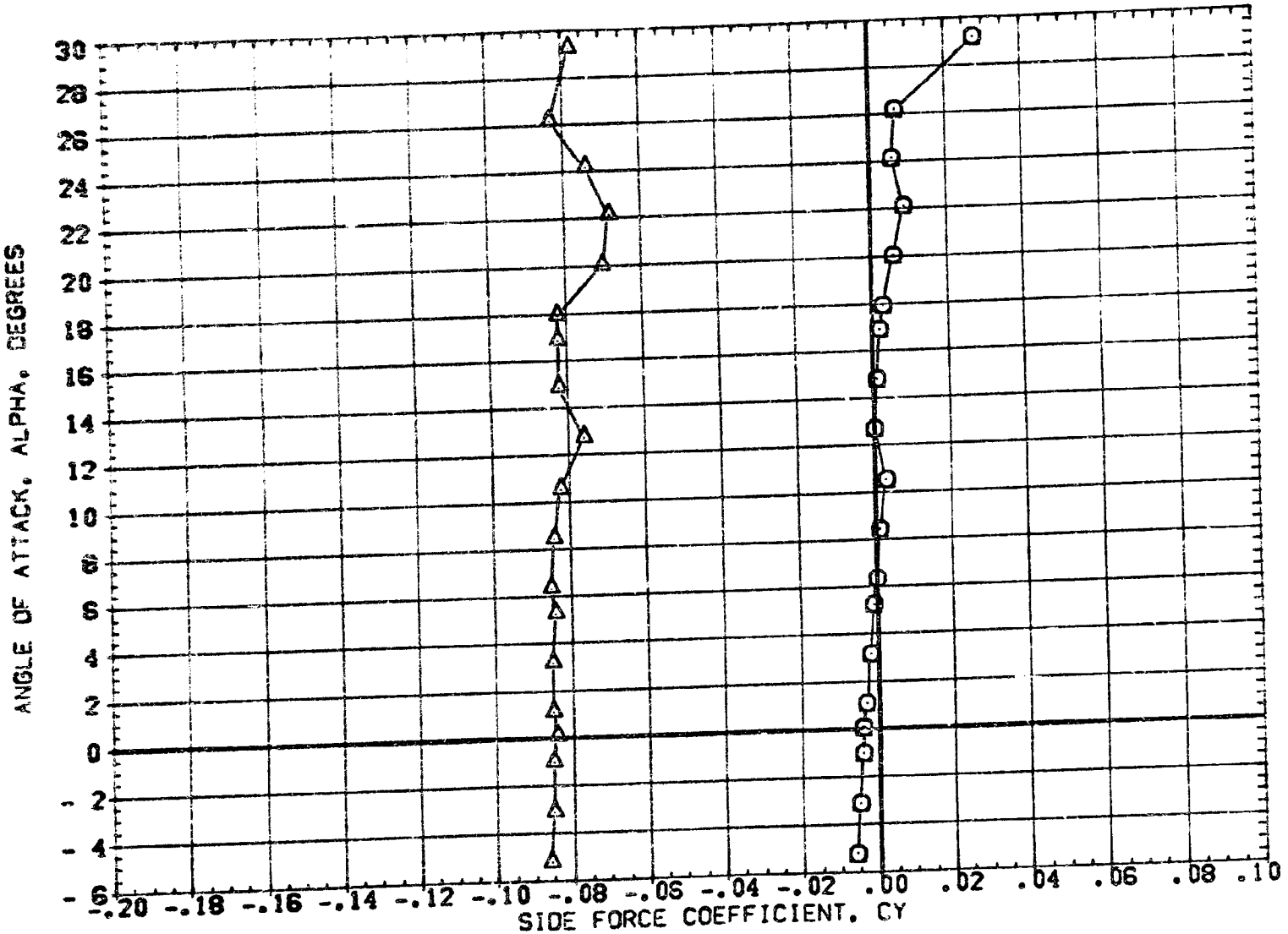


FIG. 40 EFFECT OF LEADING EDGE MODIFICATION

(A)MACH = 0.26

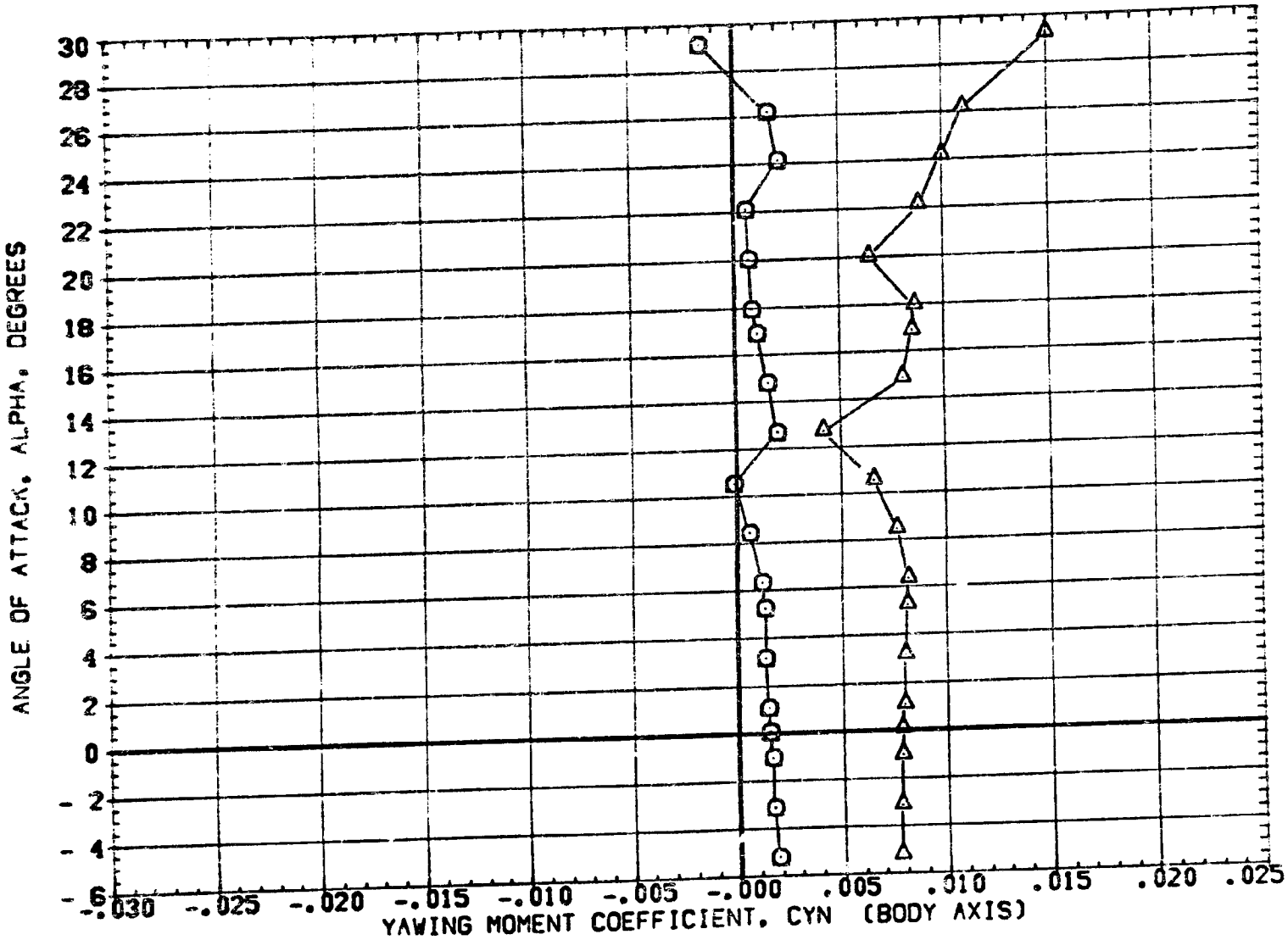


FIG. 40 EFFECT OF LEADING EDGE MODIFICATION

(A)MACH = 0.26

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA
(RDF054) Ω	SSV-ATP ORBITER B2C2D2M1F1W2V3K2	0.000
(RDF191) △	SSV-ATP ORBITER B2C2D2M1F1W2V3K2	5.000

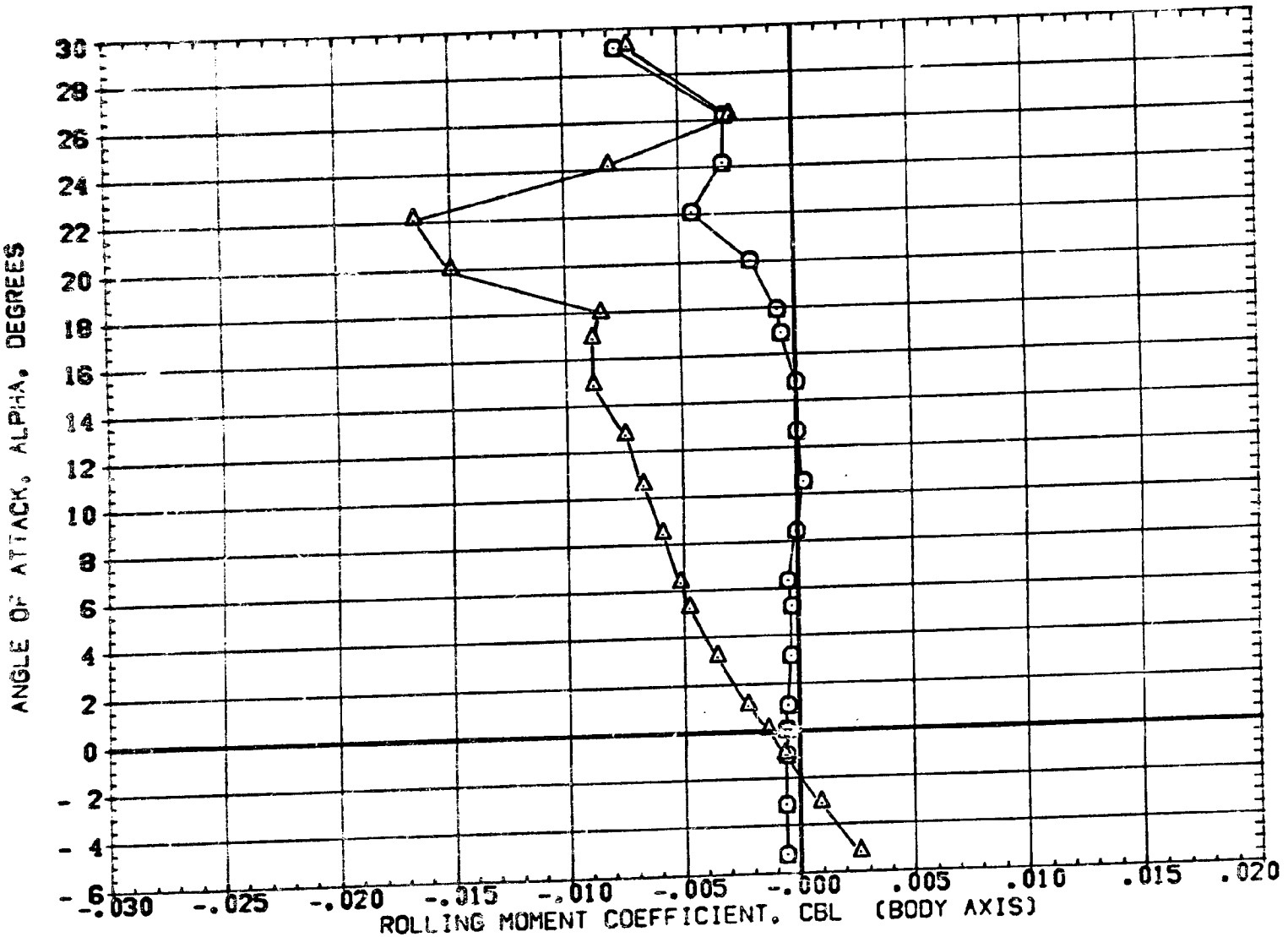


FIG. 40 EFFECT OF LEADING EDGE MODIFICATION

(A)MACH = 0.26

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	LE.MOD
(DSP103)	SSV-ATP ORBITER B2C2D2M1F1W3SV3R2	0.000	18.000
(DSP104)	SSV-ATP ORBITER B2C2D2M1F1W3SV3R2	5.000	18.000

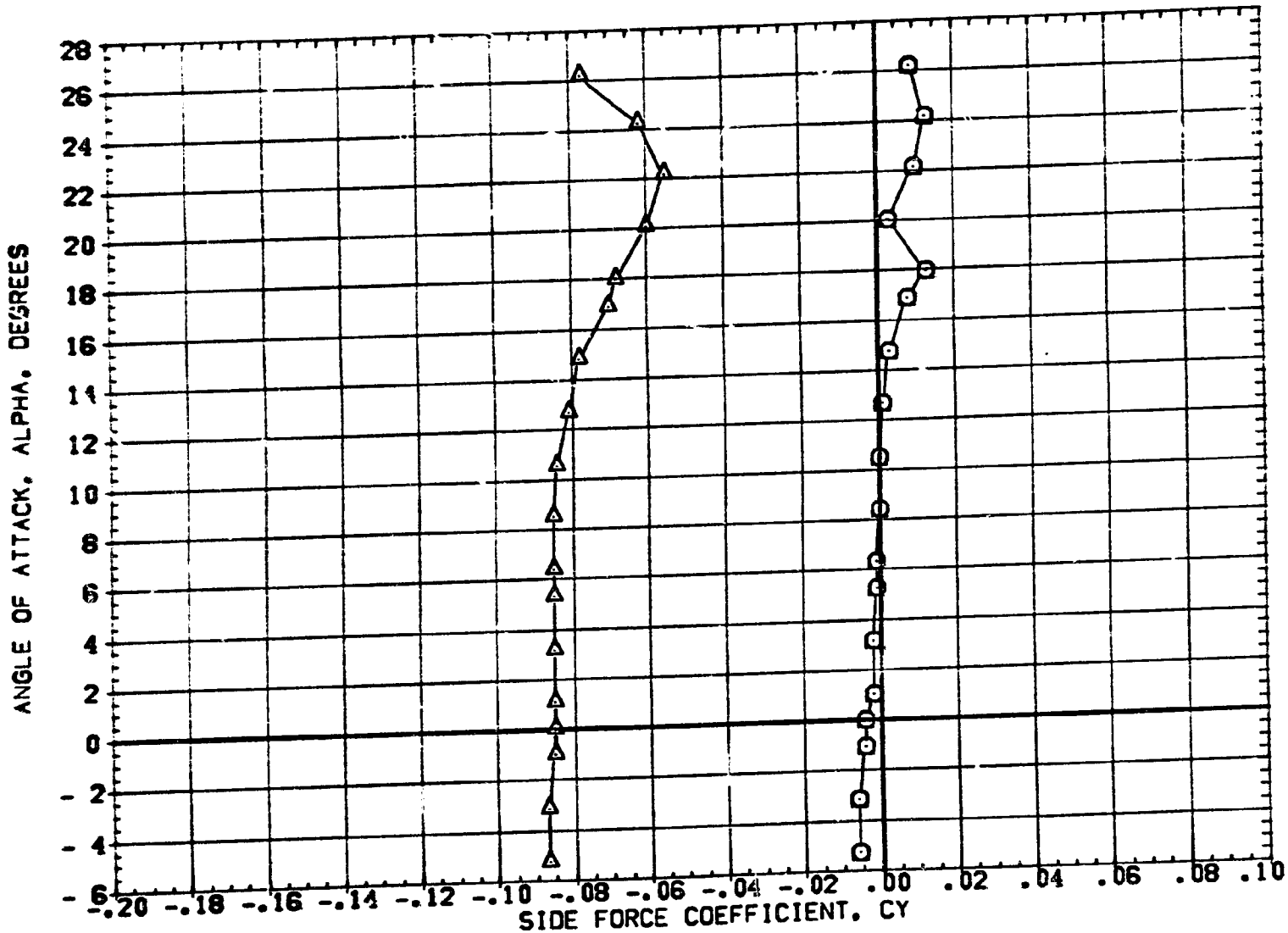


FIG. 41 EFFECT OF LEADING EDGE MODIFICATION

(A)MACH = 0.26

REPRODUCIBILITY OF THE ORIGINAL PAGE IS POOR.

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	BETA	LE.MOD
(80F103)	○	SSV-ATP ORBITER 82C202M1F1W33V3K2	0.000	18.000
(80F104)	△	SSV-ATP ORBITER 82C202M1F1W33V3K2	5.000	18.000

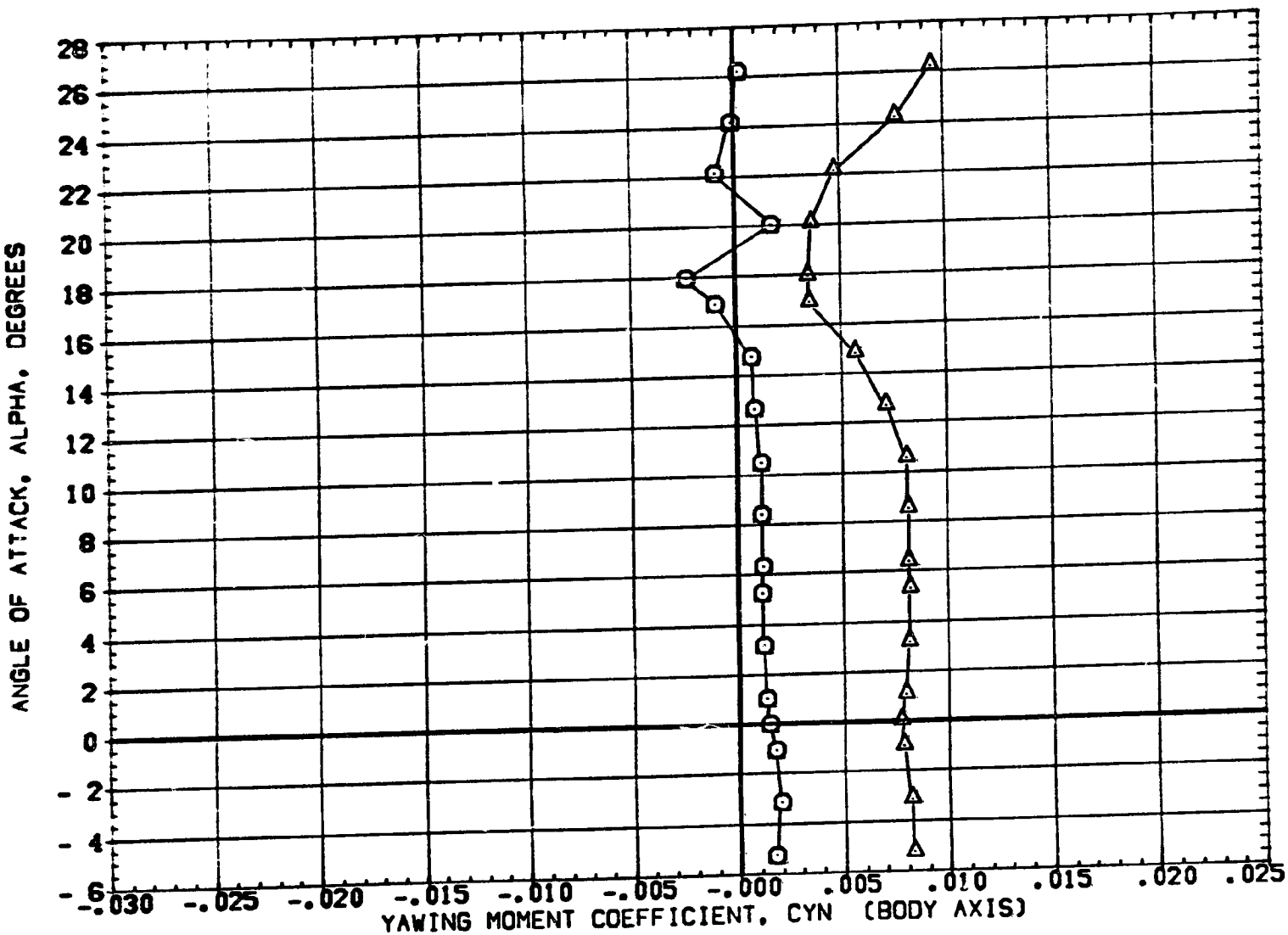


FIG. 41 EFFECT OF LEADING EDGE MODIFICATION

(A)MACH = 0.26

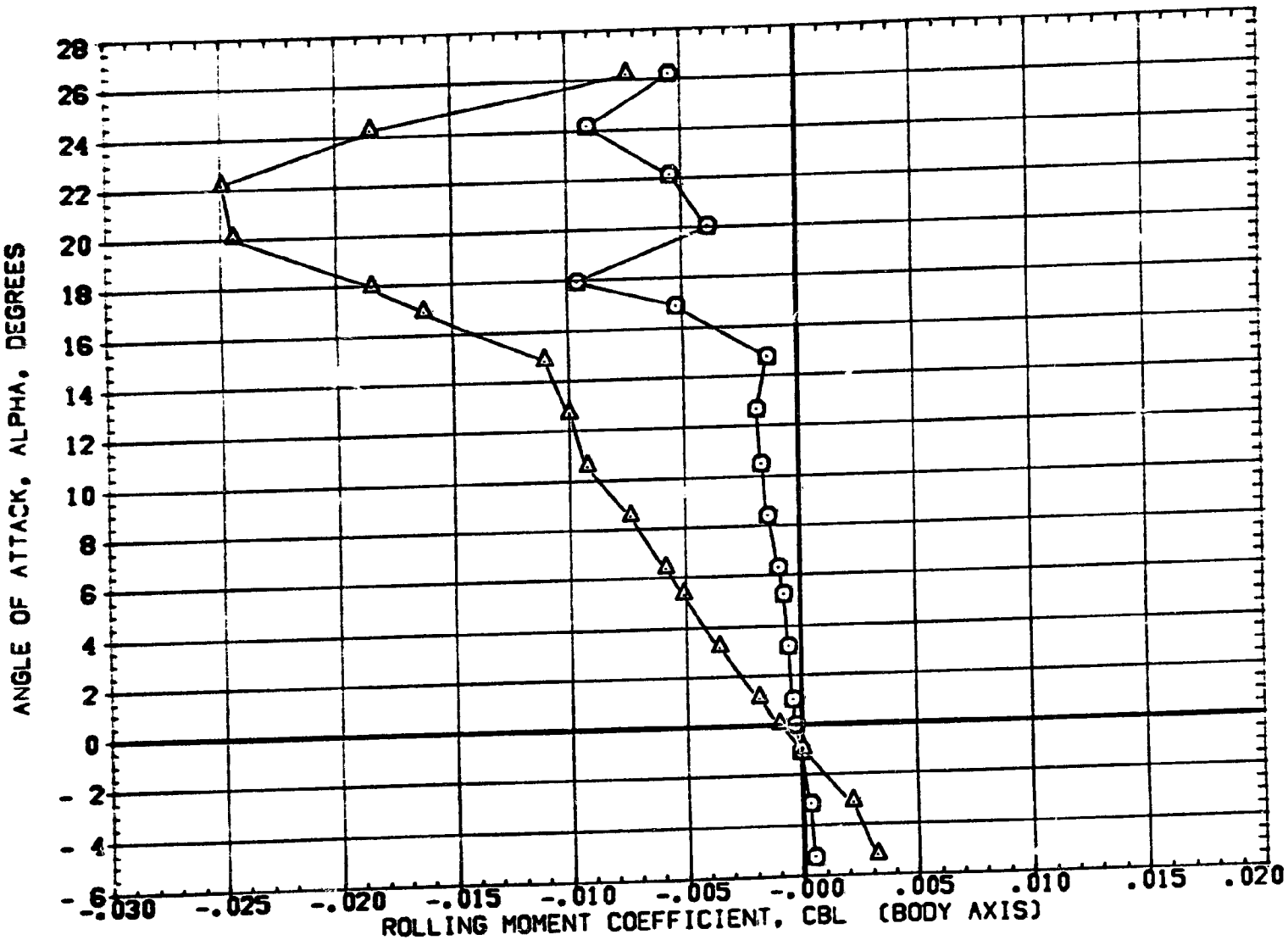


FIG. 41 EFFECT OF LEADING EDGE MODIFICATION

(A)MACH = 0.26

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	LE.MOD
(EDF11P)	SSV-ATP ORBITER B2C2D2M1F1W3S3V3R2	0.000	12.000
(EDF11A)	SSV-ATP ORBITER B2C2D2M1F1W3S3V3R2	3.000	12.000

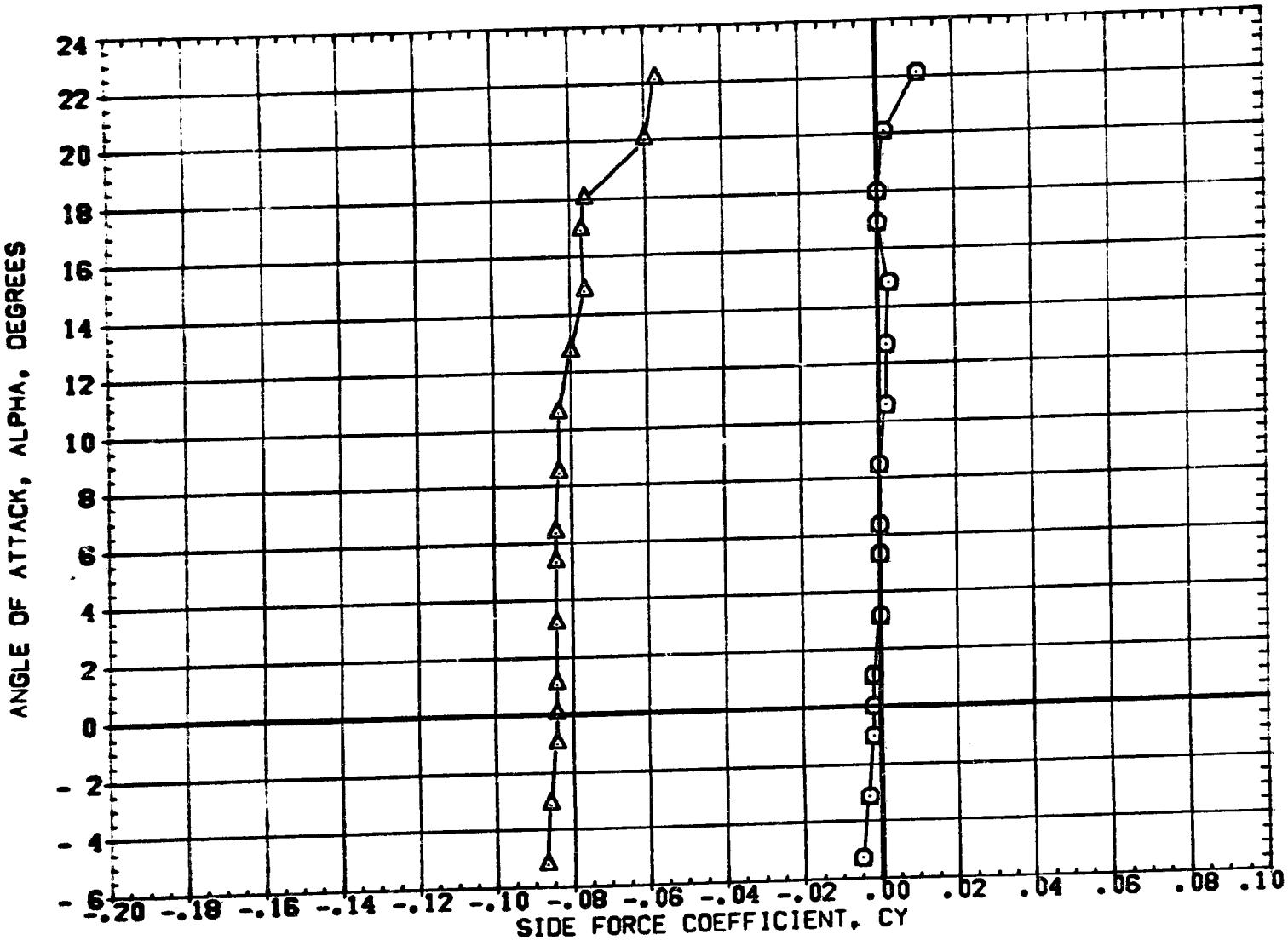


FIG. 42 EFFECT OF LEADING EDGE MODIFICATION

(A)MACH = 0.26

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	DELTA	LEADING
(SDF01P)	SSV-ATP ORBITER B2C202M1F1W33V3RE	0.000	12.000
(SDF11P)	SSV-ATP ORBITER B2C202M1F1W33V3RE	5.000	12.000

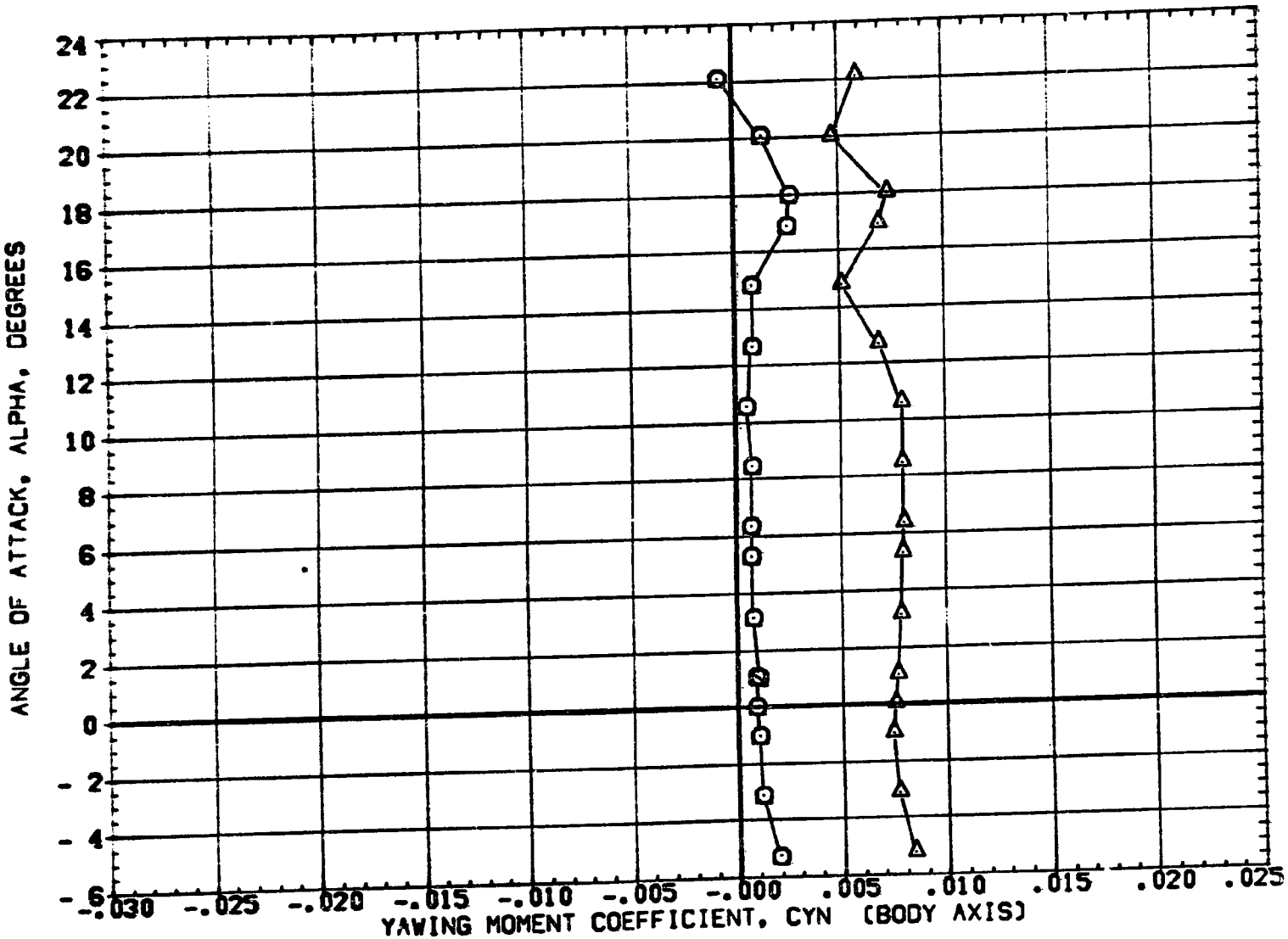


FIG. 42 EFFECT OF LEADING EDGE MODIFICATION

(A)MACH = 0.26

REPRODUCIBILITY OF THE ORIGINAL PAGE IS POOR

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	BETA	LE.MOD
(80F117)		SSV-ATP ORBITER B2C2D2M1F1W3SV3K2	0.000	12.000
(80F118)		SSV-ATP ORBITER B2C2D2M1F1W3SV3K2	5.000	12.000

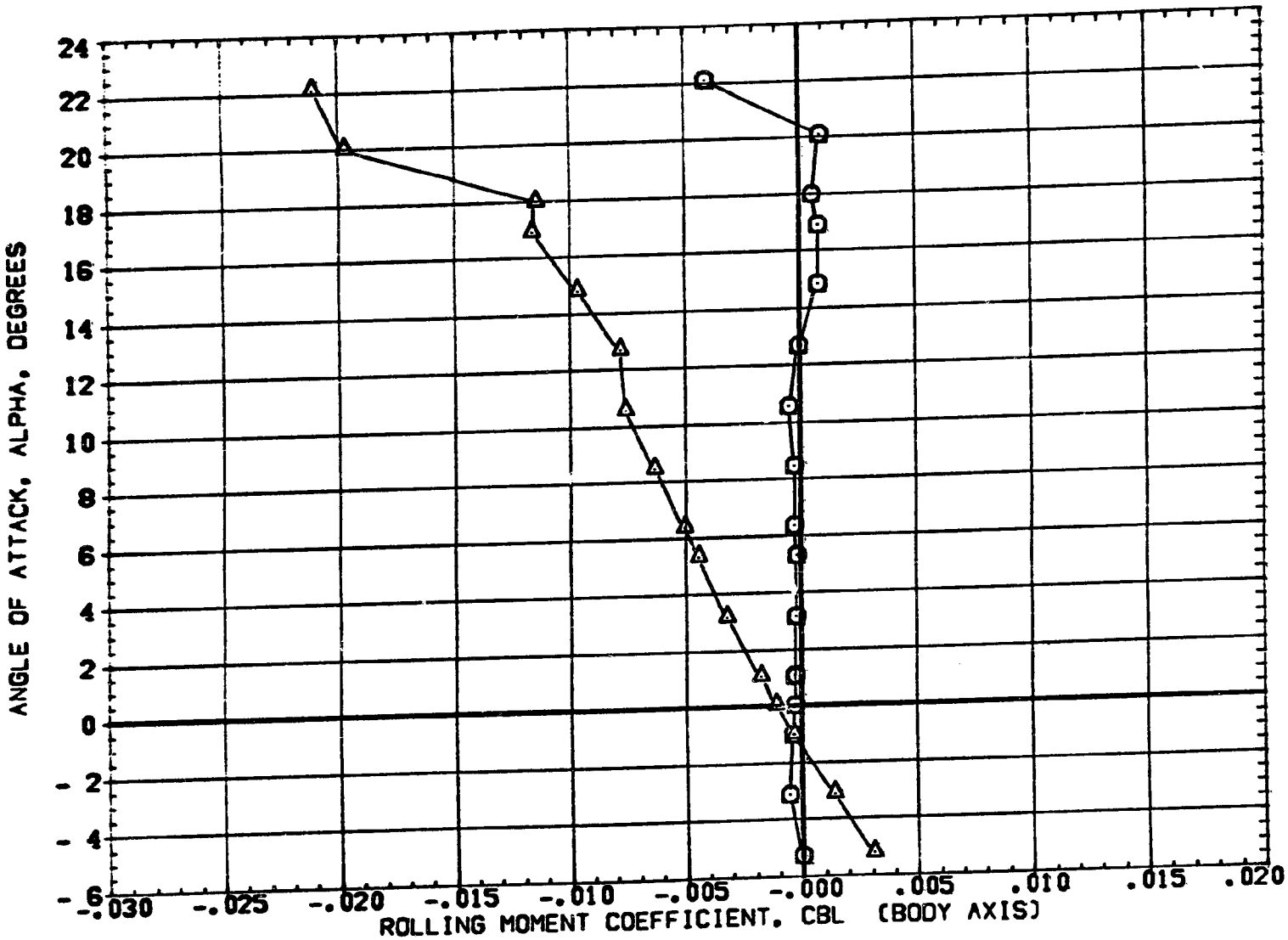


FIG. 42 EFFECT OF LEADING EDGE MODIFICATION

(A)MACH = 0.26

REPRODUCIBILITY OF THE ORIGINAL PAGE IS POOR.

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	DELTA	CANARD
(ADP084)	SSV-ATP ORBITER 82CE02MIFIWBV3K2	0.000	
(ADP103)	SSV-ATP ORBITER 82CE02MIFIW33V3K2	0.000	18.000
(ADP117)	SSV-ATP ORBITER 82CZ02MIFIW33V3K2	0.000	12.000

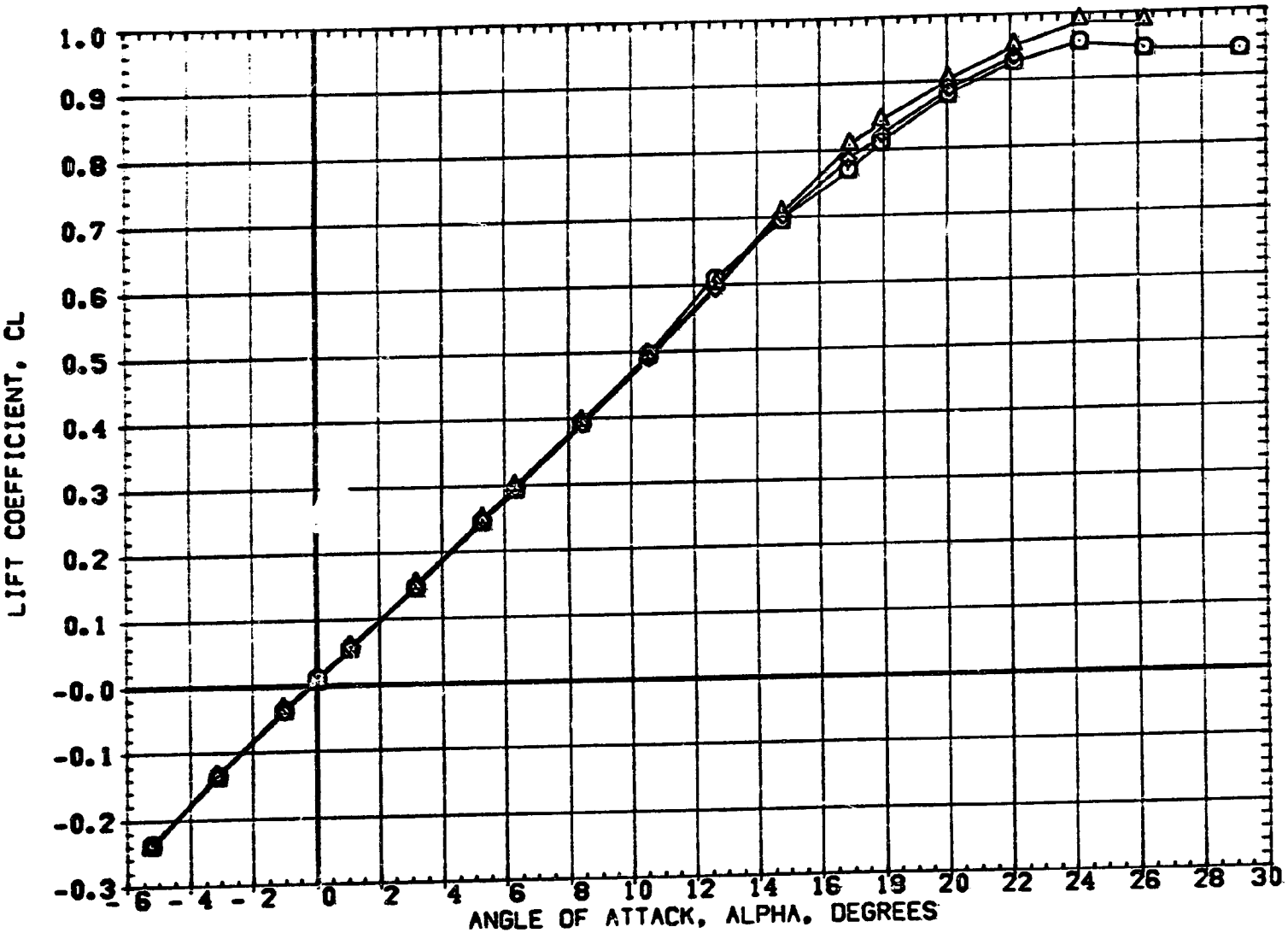


FIG. 43 EFFECT OF LEADING EDGE MODIFICATION DEFLECTION

(A)MACH = 0.26

REPRODUCIBILITY OF THE ORIGINAL PAGE IS POOR.

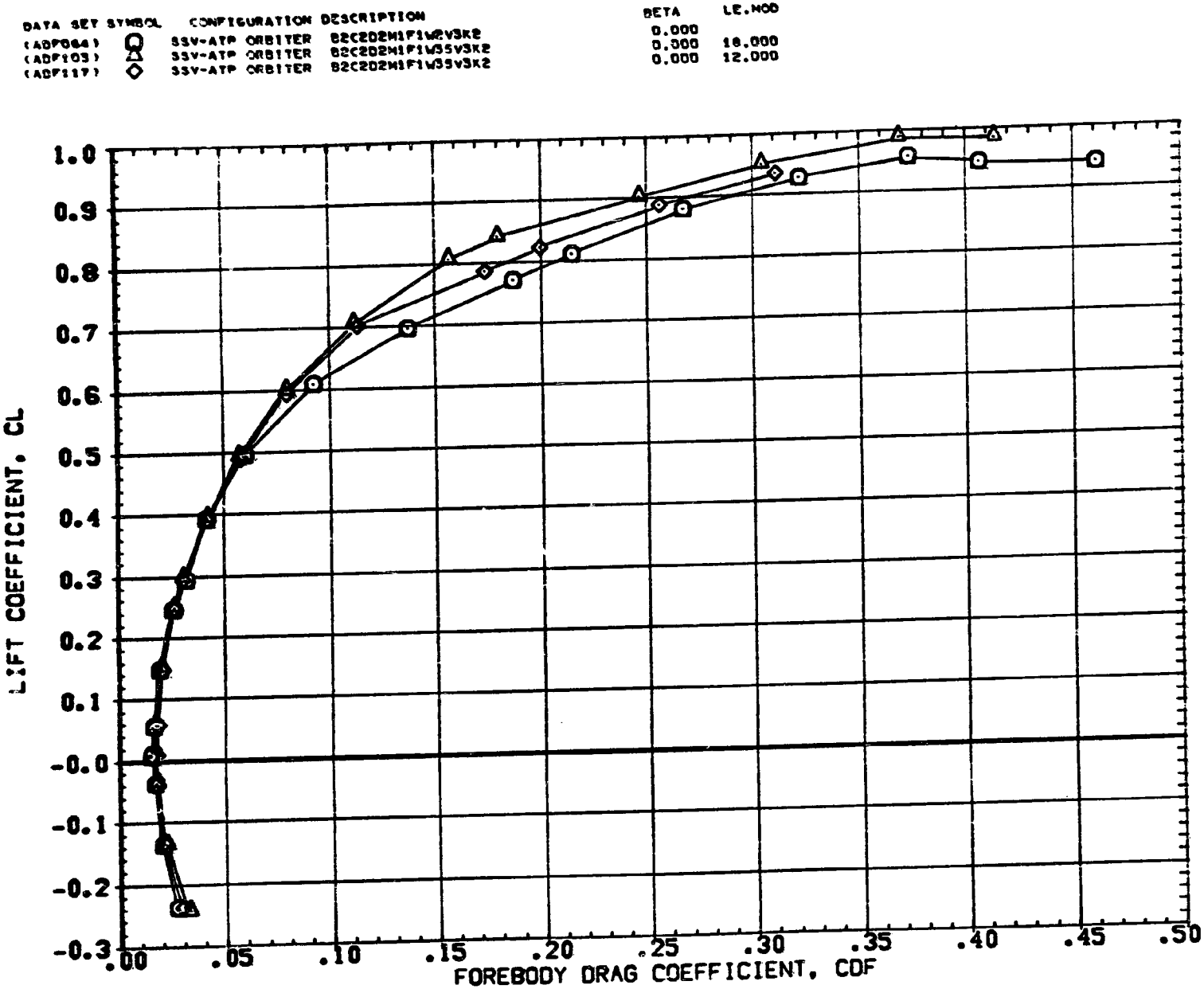


FIG. 43 EFFECT OF LEADING EDGE MODIFICATION DEFLECTION

(A)MACH = 0.26

REPRODUCIBILITY OF THE ORIGINAL PAGE IS POOR

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	BETA	LE.H60
(ADP064)	○	SSV-ATP ORBITER B2C2D2M1F1W2V3K2	0.000	
(ADP103)	△	SSV-ATP ORBITER B2C2D2M1F1W3SV3K2	0.000	16.000
(ADP117)	◇	SSV-ATP ORBITER B2C2D2M1F1W3SV3K2	0.000	12.000

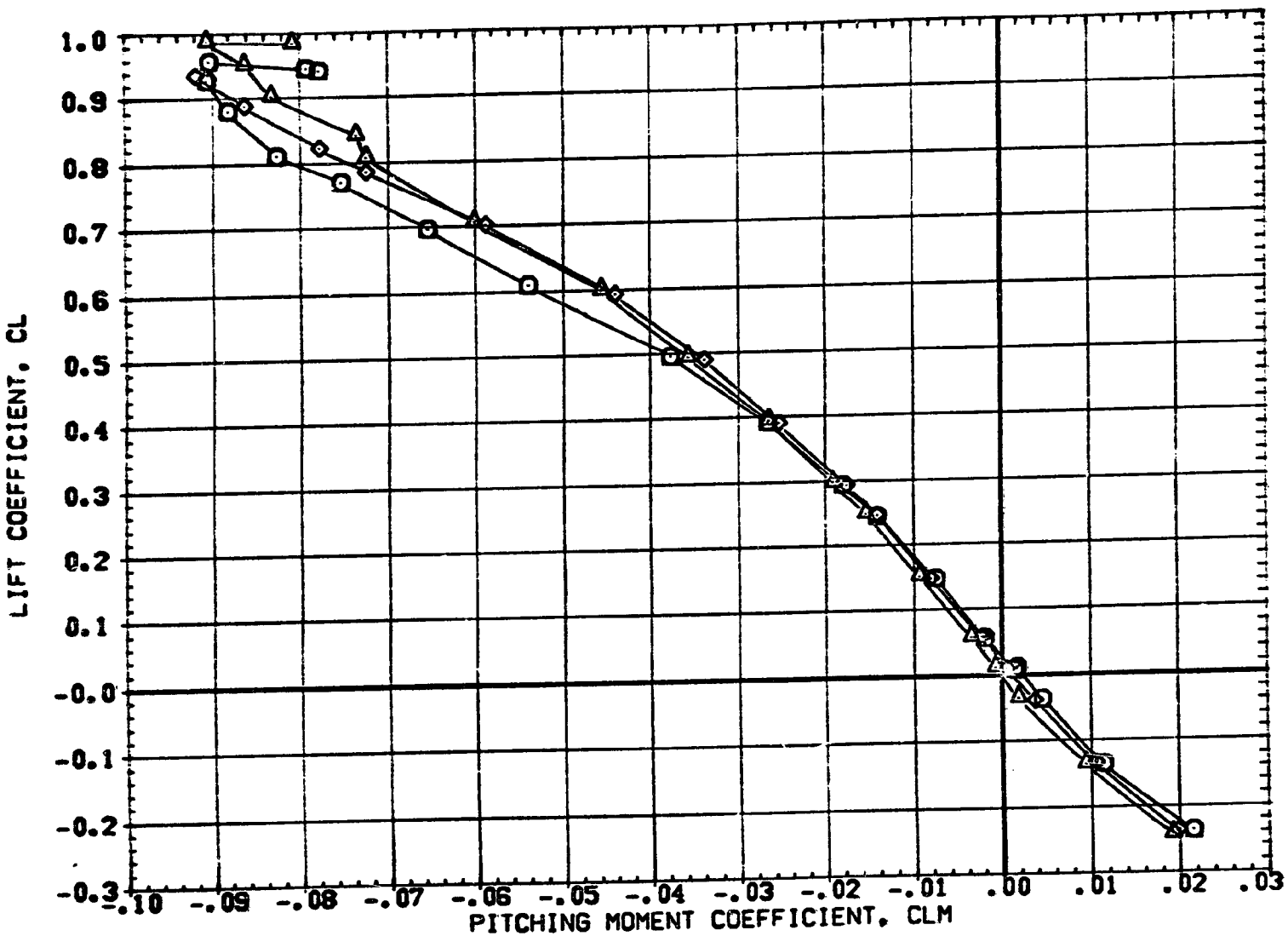


FIG. 43 EFFECT OF LEADING EDGE MODIFICATION DEFLECTION

(A)MACH = 0.26

REPRODUCIBILITY OF THE ORIGINAL PAGE IS POOR

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	LE.MOD
(ADF086)	SSV-ATP ORBITER B2C2D2M1F1W2V3R2	0.000	
(ADF103)	SSV-ATP ORBITER B2C2D2M1F1W35V3R2	0.000	18.000
(ADF119)	SSV-ATP ORBITER B2C2D2M1F1W35V3R2	0.000	12.000

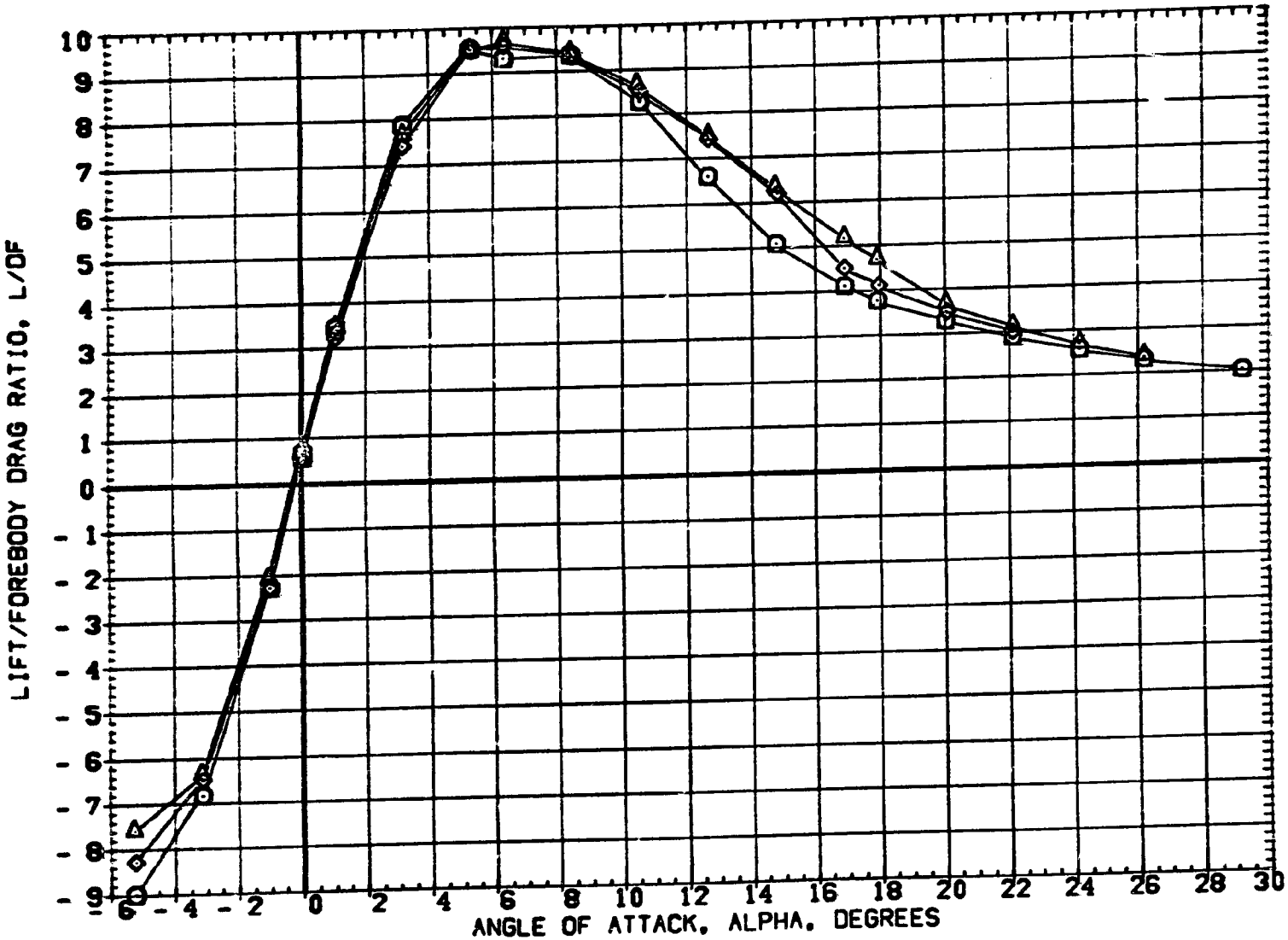


FIG. 43 EFFECT OF LEADING EDGE MODIFICATION DEFLECTION

(A)MACH = 0.26

REPRODUCIBILITY OF THE ORIGINAL PAGE IS POOR

(ADP064) SSV-ATP ORBITER B2C2D2M1F1W2V3K2 0.000
(ADP103) SSV-ATP ORBITER B2C2D2M1F1W35V3K2 0.000 18.000
(ADP117) SSV-ATP ORBITER B2C2D2M1F1W35V3K2 0.000 12.000

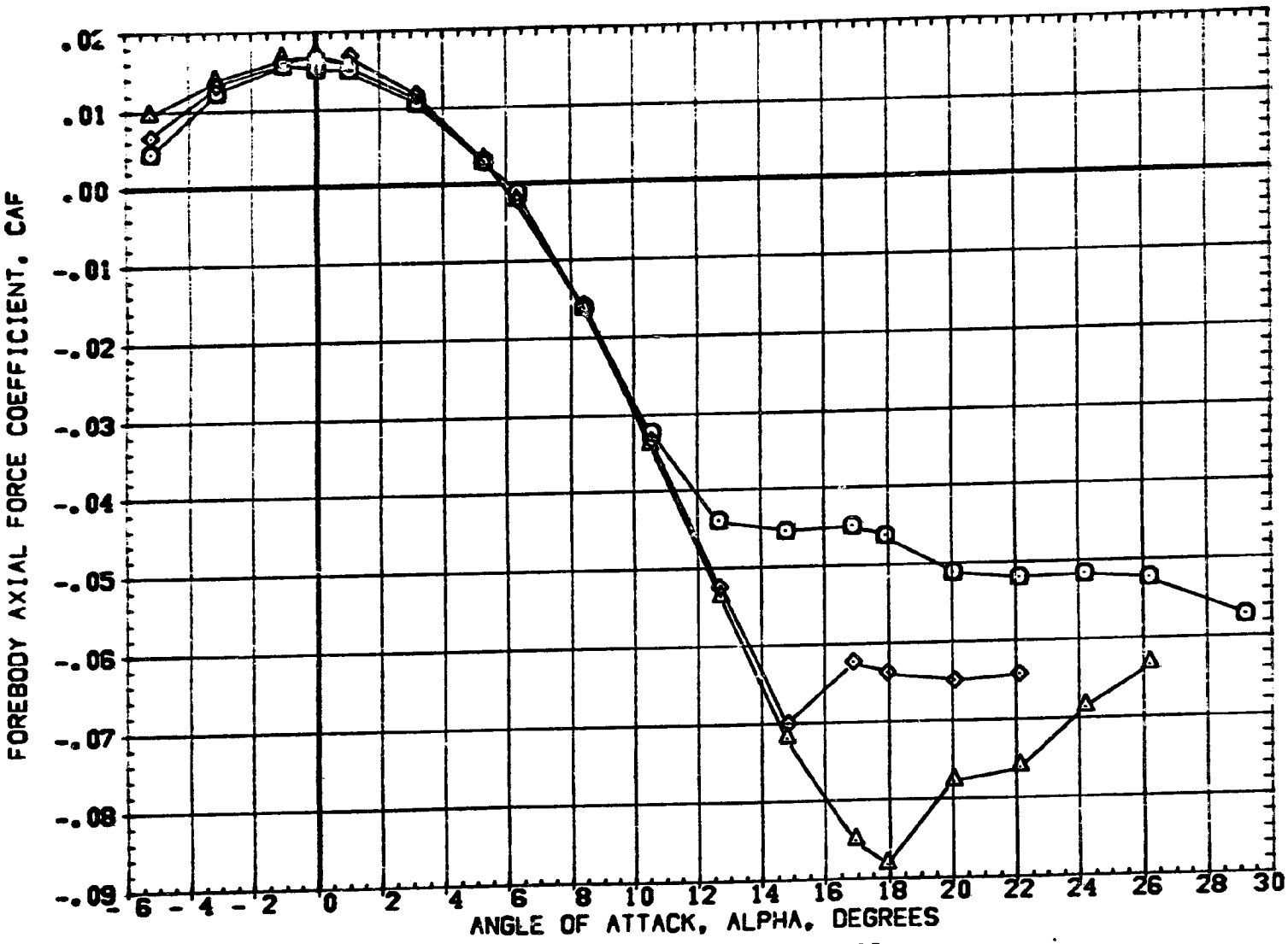


FIG. 43 EFFECT OF LEADING EDGE MODIFICATION DEFLECTION

(A)MACH = 0.26

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	BETA	LE.MOD
(A0F084)	○	SSV-ATP ORBITER B2C2D2M1F1W2V3K2	0.000	
(A0F103)	△	SSV-ATP ORBITER B2C2D2M1F1W3SV3K2	0.000	16.000
(A0F117)	◇	SSV-ATP ORBITER B2C2D2M1F1W3SV3K2	0.000	12.000

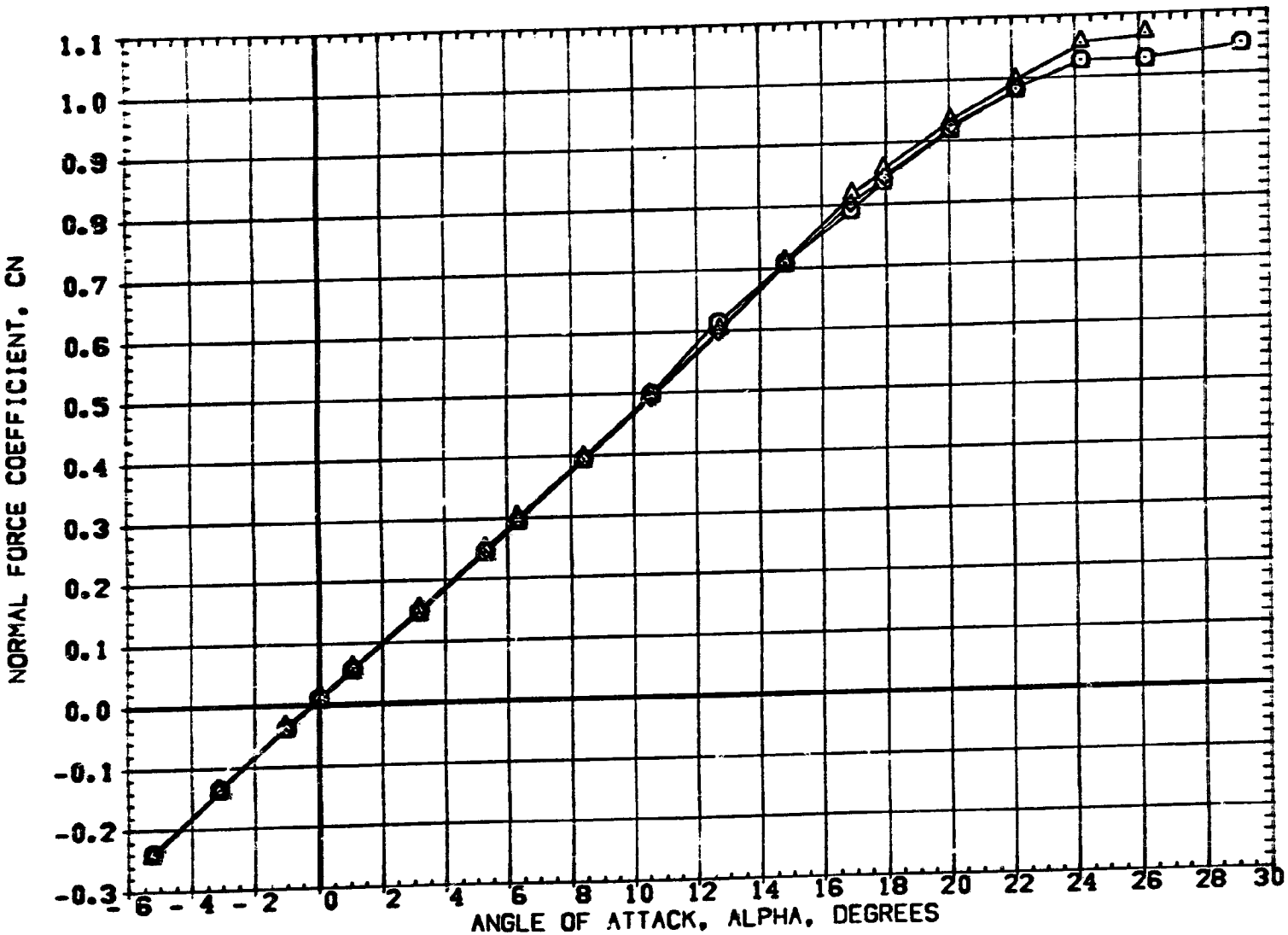


FIG. 43 EFFECT OF LEADING EDGE MODIFICATION DEFLECTION

(A)MACH = 0.26

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	BETA	LE.MOD
(ADF064)	○	SSV-ATP ORBITER B2C2D2M1F1W2V3R2	0.000	
(ADF103)	△	SSV-ATP ORBITER B2C2D2M1F1W33V3R2	0.000	18.000
(ADF117)	◇	SSV-ATP ORBITER B2C2D2M1F1W33V3R2	0.000	12.000

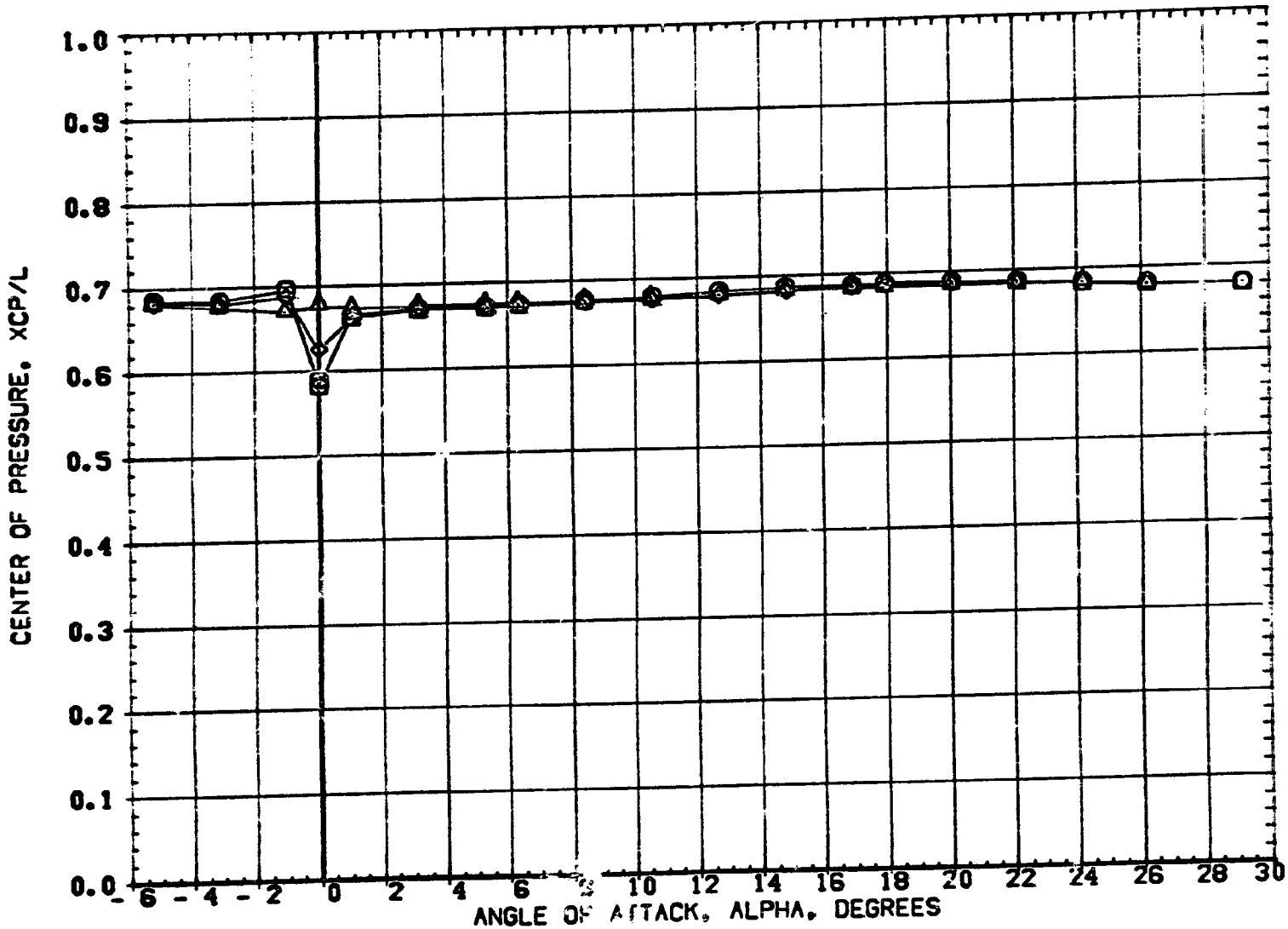


FIG. 43 EFFECT OF LEADING EDGE MODIFICATION DEFLECTION

(A)MACH = 0.26

REPRODUCIBILITY OF THE ORIGINAL PAGE IS POOR.

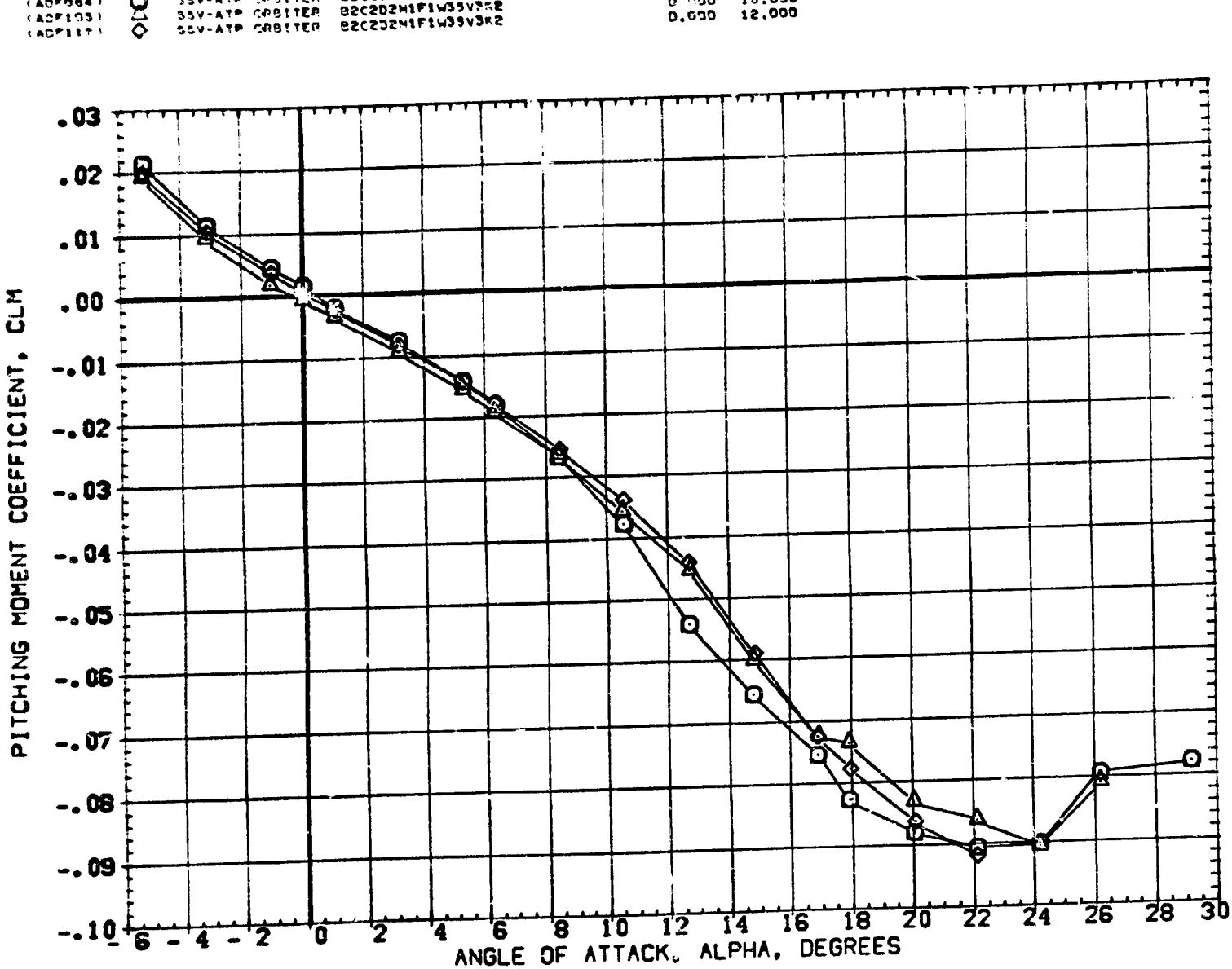


FIG. 43 EFFECT OF LEADING EDGE MODIFICATION DEFLECTION

(A)MACH = 0.26

REPRODUCIBILITY OF THE ORIGINAL PAGE IS POOR

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	BETA	LE.MOD	82FLAP	ELEVON
(ADF064)	○	SSV-ATP ORBITER 82C2D2M1F1W2V3K2	0.000		0.000	
(ADF087)	△	SSV-ATP ORBITER 82C2D2M1F1W2E2V3K2	0.000		0.000	-5.000
(ADF103)	◇	SSV-ATP ORBITER 82C2D2M1F1W35V3K2	0.000	18.000	0.000	
(ADF113)	□	SSV-ATP ORBITER 82C2D2M1F1W35E2V3K2	0.000	18.000	0.000	-5.000

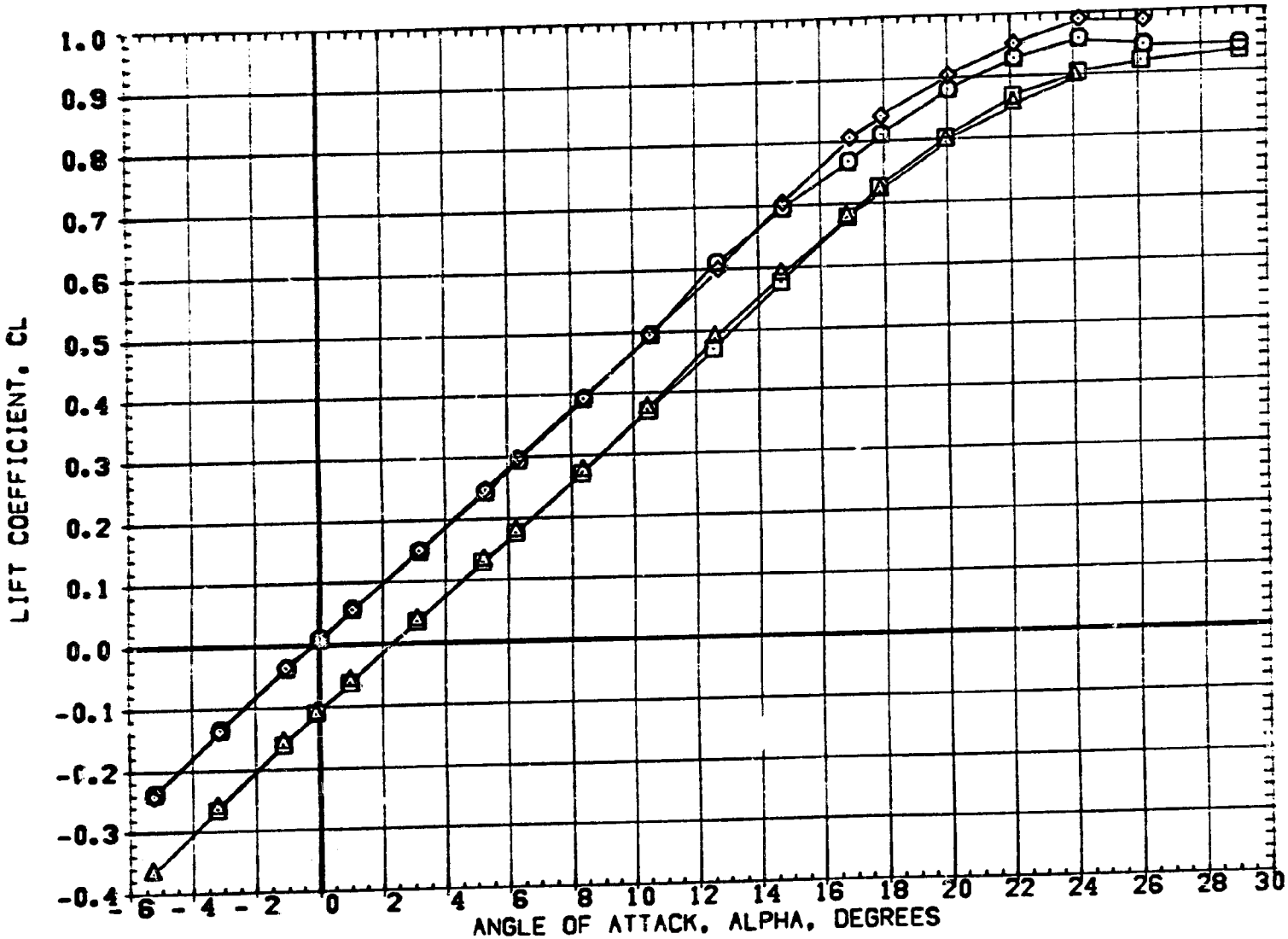


FIG. 44 EFFECT OF LEADING EDGE DROOP ON ELEVON EFFECTIVENESS

(A)MACH = 0.26

DATA SET	SYMBOL	CONFIGURATION	DESCRIPTION	BETA	LE.HOD	BEFLAP	ELEVON
(ADF086)	○	SSV-ATP	ORBITER B2C2D2M1F1W2V3R2	0.000		0.000	
(ADF087)	△	SSV-ATP	ORBITER B2C2D2M1F1W2E2V3R2	0.000		0.000	-5.000
(ADF105)	◇	SSV-ATP	ORBITER B2C2D2M1F1W35V3R2	0.000	10.000	0.000	
(ADF113)	□	SSV-ATP	ORBITER B2C2D2M1F1W35E2V3R2	0.000	10.000	0.000	-5.000

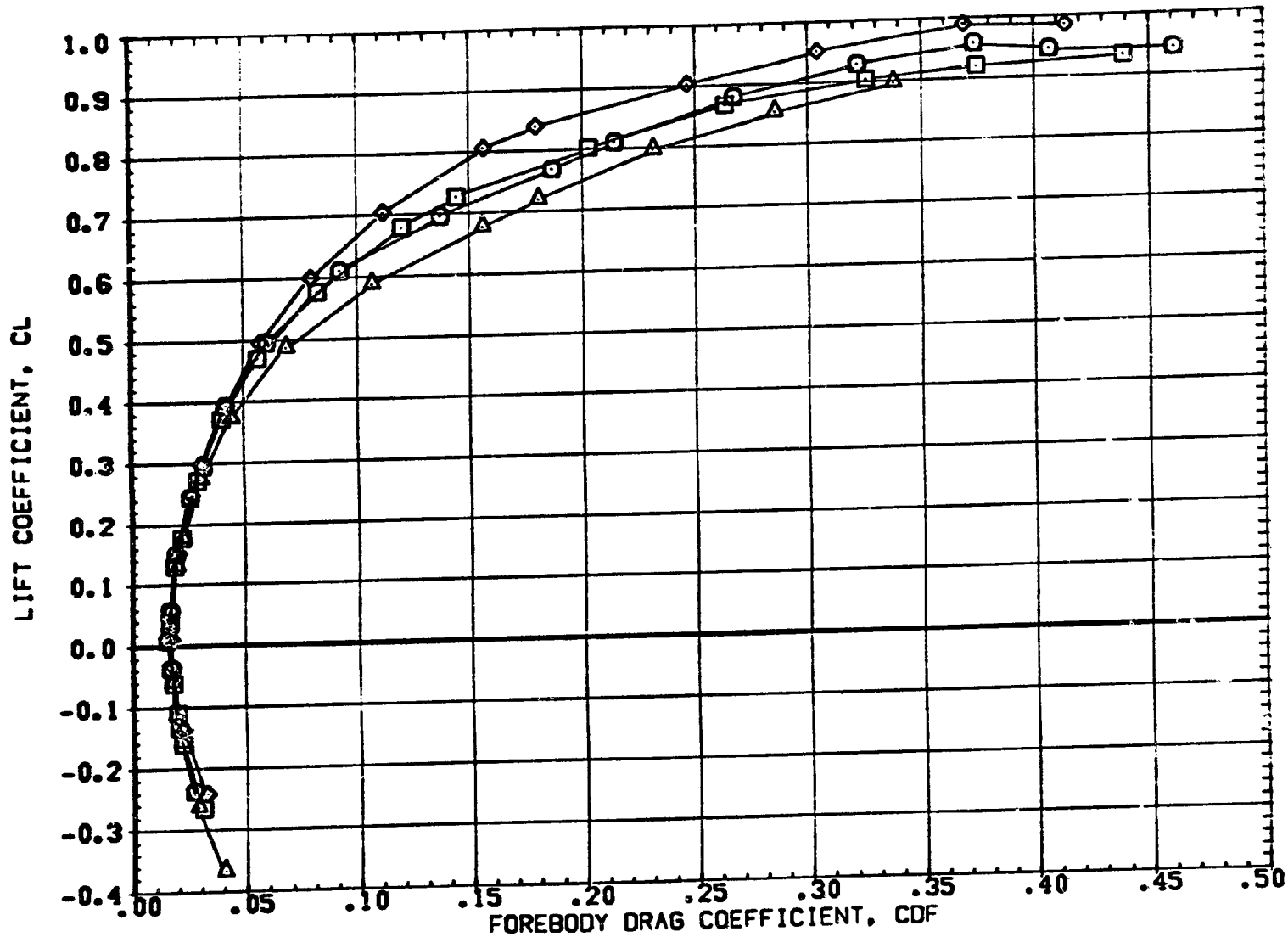


FIG. 44 EFFECT OF LEADING EDGE DROOP ON ELEVON EFFECTIVENESS

(A)MACH = 0.26

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	BETA	LE.MOD	B2FLAP	ELEVON
(ADF084)	○	SSV-ATP ORBITER B2C2D2M1F1W2V3K2	0.000		0.000	
(ADF087)	△	SSV-ATP ORBITER B2C2D2M1F1W2E2V3K2	0.000		0.000	-5.000
(ADF103)	◇	SSV-ATP ORBITER B2C2D2M1F1W35V3K2	0.000	18.000	0.000	
(ADF113)	□	SSV-ATP ORBITER B2C2D2M1F1W35E2V3K2	0.000	18.000	0.000	-5.000

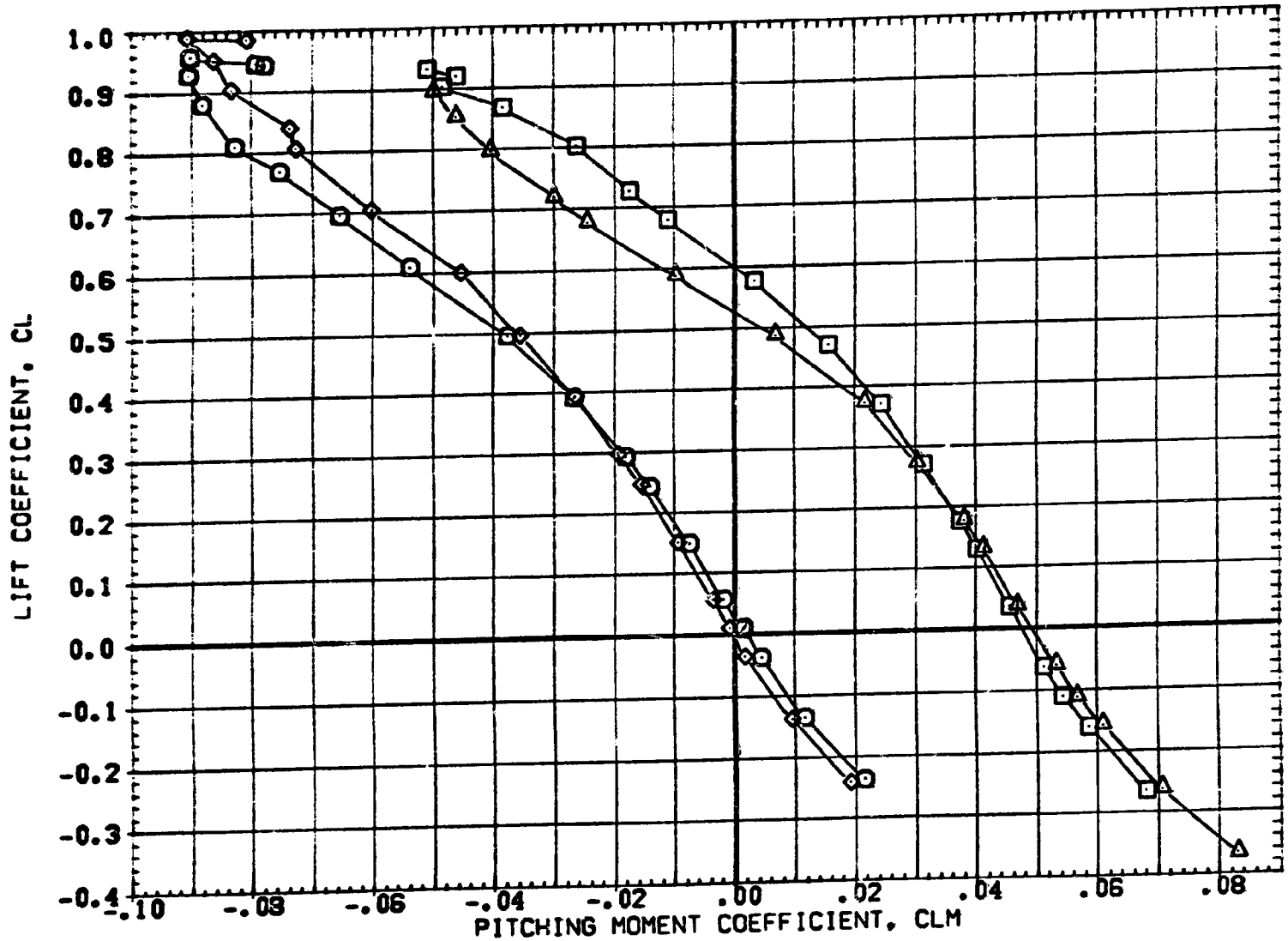


FIG. 44 EFFECT OF LEADING EDGE DROOP ON ELEVON EFFECTIVENESS

(A)MACH = 0.26

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	BETA	LE.MOD	BEFLAP	ELEVON
(ADF064)		SSV-ATP ORBITER B2C2D2M1F1W2V3K2	0.000		0.000	
(ADF097)		SSV-ATP ORBITER B2C2D2M1F1W2E2V3K2	0.000		0.000	-5.000
(ADF103)		SSV-ATP ORBITER B2C2D2M1F1W35V3K2	0.000	18.000	0.000	
(ADF113)		SSV-ATP ORBITER B2C2D2M1F1W35E2V3K2	0.000	18.000	0.000	-5.000

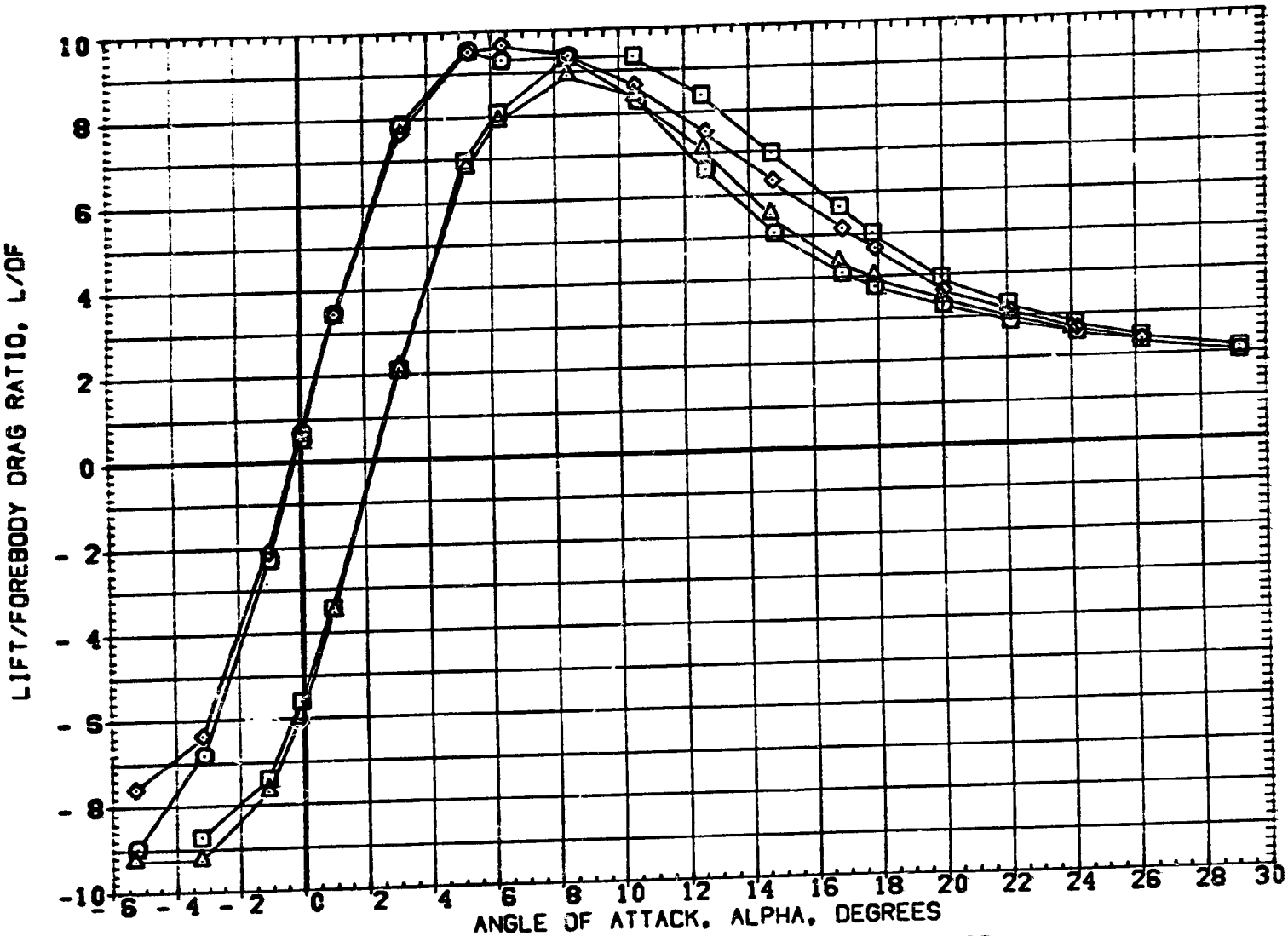


FIG. 44 EFFECT OF LEADING EDGE DROOP ON ELEVON EFFECTIVENESS

(A)MACH = 0.26

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	LE.MOD	BEFLAP	ELEVON
(ADF084)	SSV-ATP ORBITER B2C2D2M1F1W2V3R2	0.000		0.000	
(ADF087)	SSV-ATP ORBITER B2C2D2M1F1W2E2V3R2	0.000		0.000	-5.000
(ADF103)	SSV-ATP ORBITER B2C2D2M1F1W35V3R2	0.000	18.000	0.000	
(ADF113)	SSV-ATP ORBITER B2C2D2M1F1W35E2V3R2	0.000	18.000	0.000	-5.000



FIG. 44 EFFECT OF LEADING EDGE DROOP ON ELEVON EFFECTIVENESS

(A)MACH = 0.26

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	BETA	LE.MOD	B2FLAP	ELEVON
(ADF084)	○	SSV-ATP ORBITER B2C2D2M1F1W2V3K2	0.000		0.000	
(ADF087)	◇	SSV-ATP ORBITER B2C2D2M1F1W2E2V3K2	0.000		0.000	-5.000
(ADF103)	△	SSV-ATP ORBITER B2C2D2M1F1W3SV3K2	0.000	18.000	0.000	
(ADF113)	□	SSV-ATP ORBITER B2C2D2M1F1W3SE2V3K2	0.000	18.000	0.000	-5.000

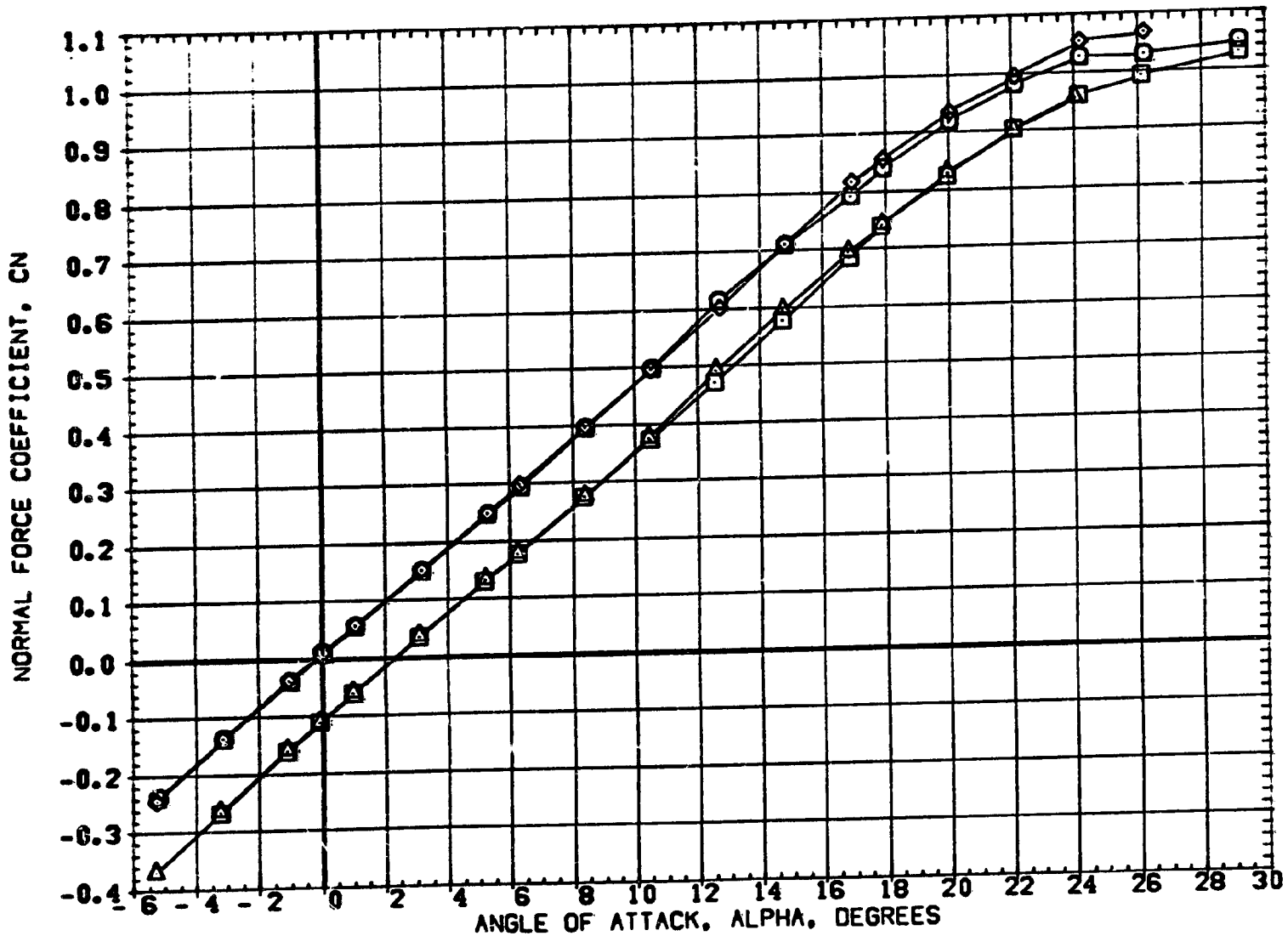


FIG. 44 EFFECT OF LEADING EDGE DROOP ON ELEVON EFFECTIVENESS

(A)MACH = 0.26

DATA SET	SYMBOL	CONFIGURATION	DESCRIPTION	BETA	LE.MOD	BEFLAP	ELEVON
(ADF064)	○	SSV-ATP	ORBITER B2C2D2M1F1L2V3K2	0.000		0.000	
(ADF067)	△	SSV-ATP	ORBITER B2C2D2M1F1W2E2V3K2	0.000		0.000	-5.000
(ADF103)	◇	SSV-ATP	ORBITER B2C2D2M1F1W3SV3K2	0.000	18.000	0.000	
(ADF113)	□	SSV-ATP	ORBITER B2C2D2M1F1W3SE2V3K2	0.000	18.000	0.000	-5.000

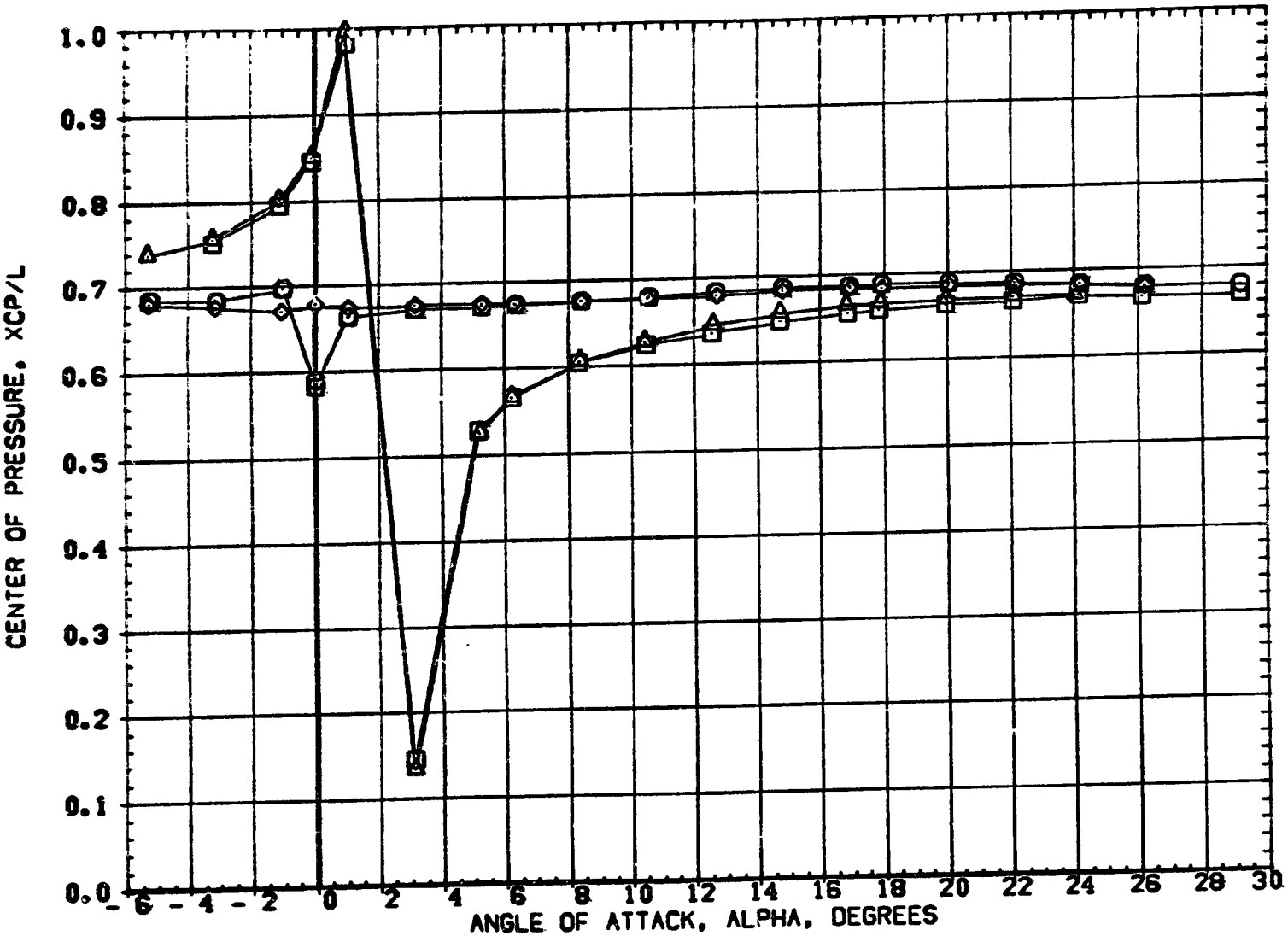


FIG. 44 EFFECT OF LEADING EDGE DROOP ON ELEVON EFFECTIVENESS

(A)MACH = 0.26

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	BETA	LE.MOD	BDFLAP	ELEVON
(ADF084)	○	SSV-ATP ORBITER B2C2D2M1F1W2V3K2	0.000		0.000	
(ADF087)	◇	SSV-ATP ORBITER B2C2D2M1F1W2E2V3K2	0.000		0.000	-5.000
(ADF103)	△	SSV-ATP ORBITER B2C2D2M1F1W3SV3K2	0.000	18.000	0.000	
(ADF113)	□	SSV-ATP ORBITER B2C2D2M1F1W3SE2V3K2	0.000	18.000	0.000	-5.000

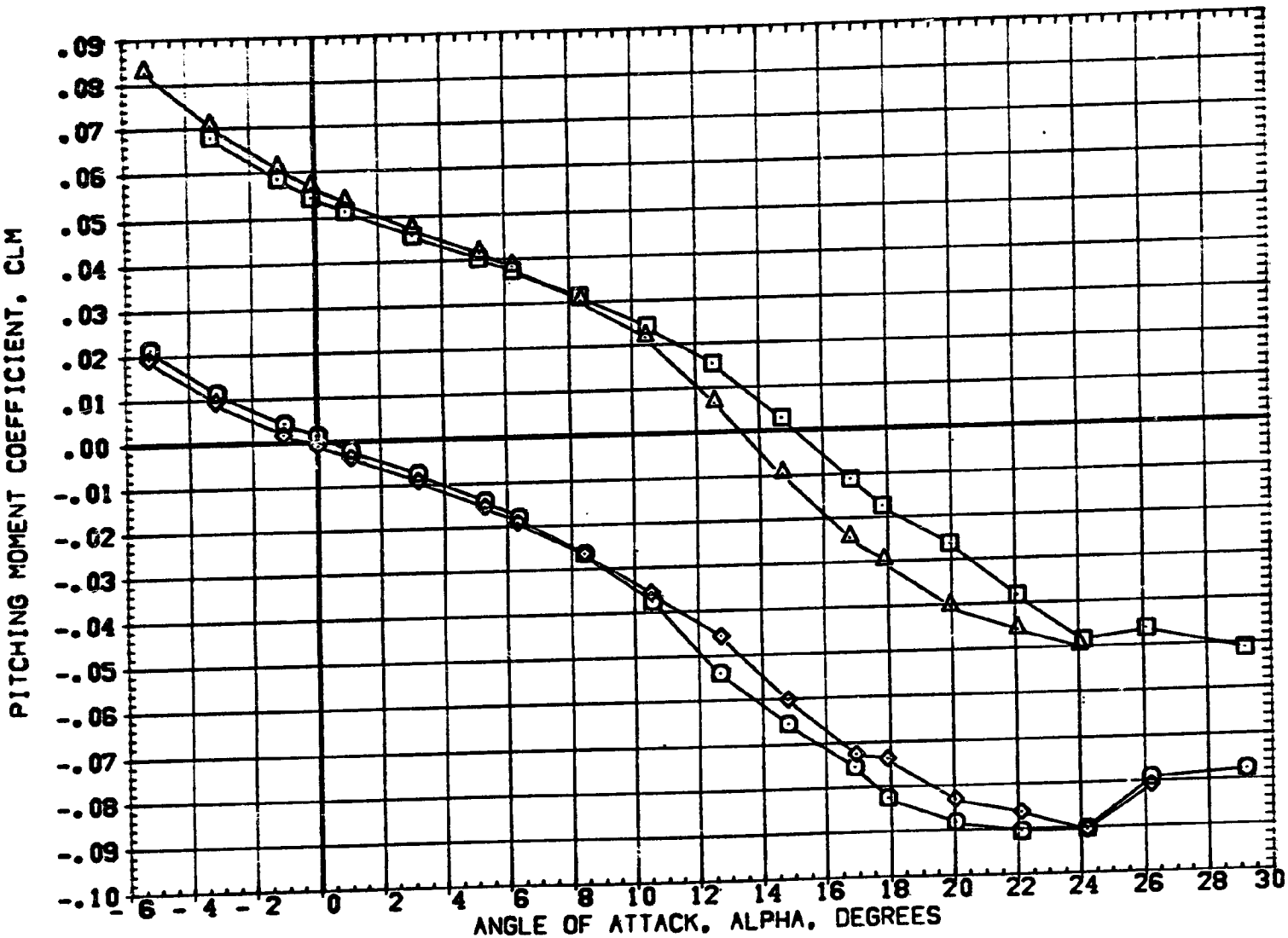


FIG. 44 EFFECT OF LEADING EDGE DROOP ON ELEVON EFFECTIVENESS

(A)MACH = 0.26

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	LE.MOD	DEFLN	DOUTT
(ADP084)	SSV-ATP ORBITER B2C2D2M1F1W2V3K2	0.000		0.000	
(ADP087)	SSV-ATP ORBITER B2C2D2M1F1W2E2V3K2	0.000		0.000	-5.000
(ADP117)	SSV-ATP ORBITER B2C2D2M1F1W35V3K2	0.000	12.000	0.000	
(ADP114)	SSV-ATP ORBITER B2C2D2M1F1W35E2V3K2	0.000	12.000	0.000	-5.000

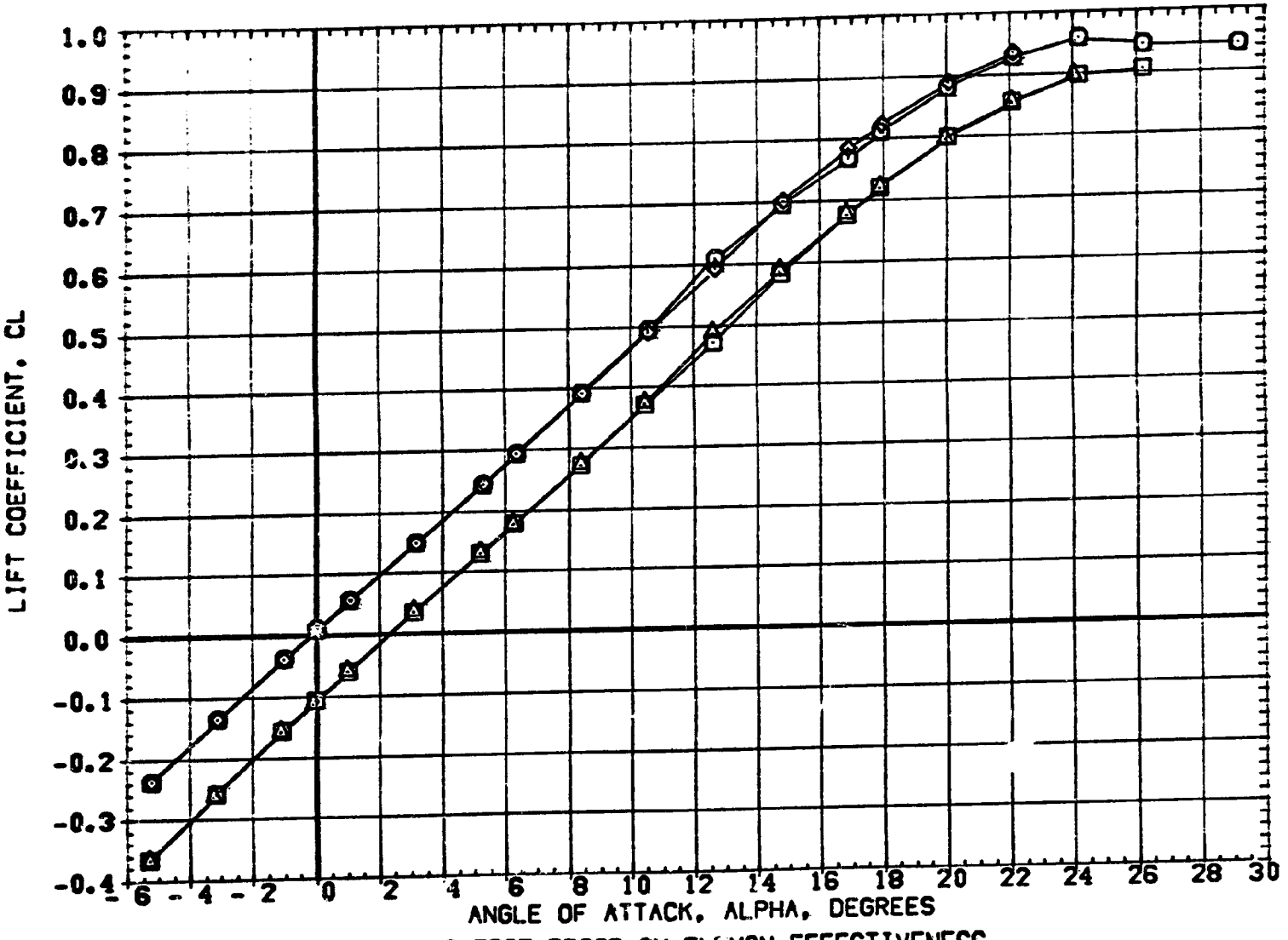


FIG. 45 EFFECT OF LEADING EDGE DROOP ON ELEVON EFFECTIVENESS

(A)MACH = 0.26

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	BETA	LE.MOD	B2FLAP	ELEVON
(ADF084)	○	SSV-ATP ORBITER B2C2D2M1F1W2V3K2	0.000		0.000	
(ADF097)	△	SSV-ATP ORBITER B2C2D2M1F1W2E2V3K2	0.000		0.000	.000
(ADF117)	◇	SSV-ATP ORBITER B2C2D2M1F1W3SV3K2	0.000	12.000	0.000	
(ADF114)	□	SSV-ATP ORBITER B2C2D2M1F1W3SE2V3K2	0.000	12.000	0.000	.000

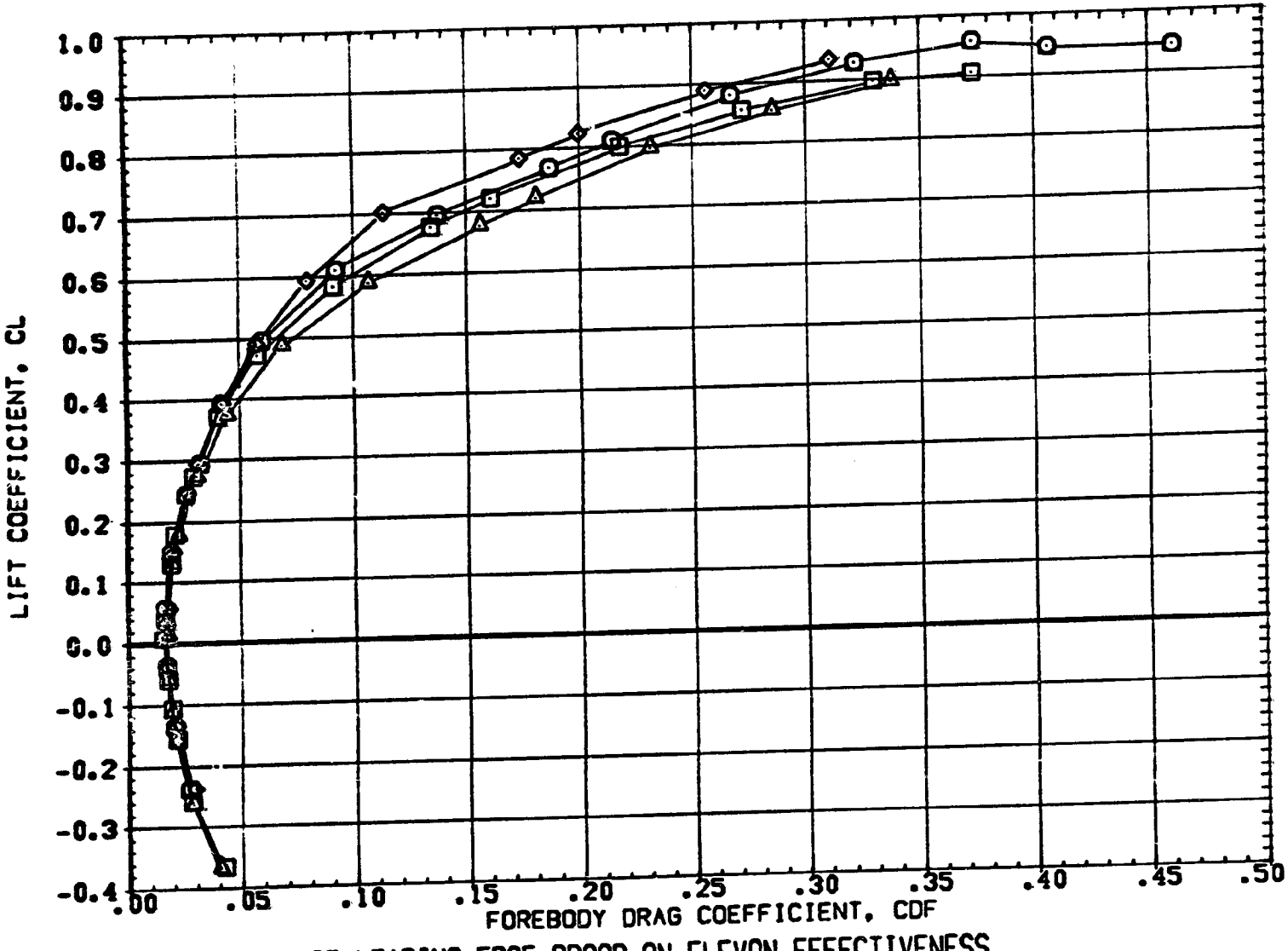


FIG. 45 EFFECT OF LEADING EDGE DROOP ON ELEVON EFFECTIVENESS

(A)MACH = 0.26

DATA SET	SYMBOL	CONFIGURATION	DESCRIPTION	BETA	LE.MOD	BEFLAP	ELEVON
(ADF084)	○	SSV-ATP ORBITER	B2C2D2M1F1W2V3K2	0.000		0.000	
(ADF087)	△	SSV-ATP ORBITER	B2C2D2M1F1W2E2V3K2	0.000		0.000	-9.000
(ADF117)	◇	SSV-ATP ORBITER	B2C2D2M1F1W33V3K2	0.000	12.000	0.000	
(ADF114)	□	SSV-ATP ORBITER	B2C2D2M1F1W33E2V3K2	0.000	12.000	0.000	-9.000

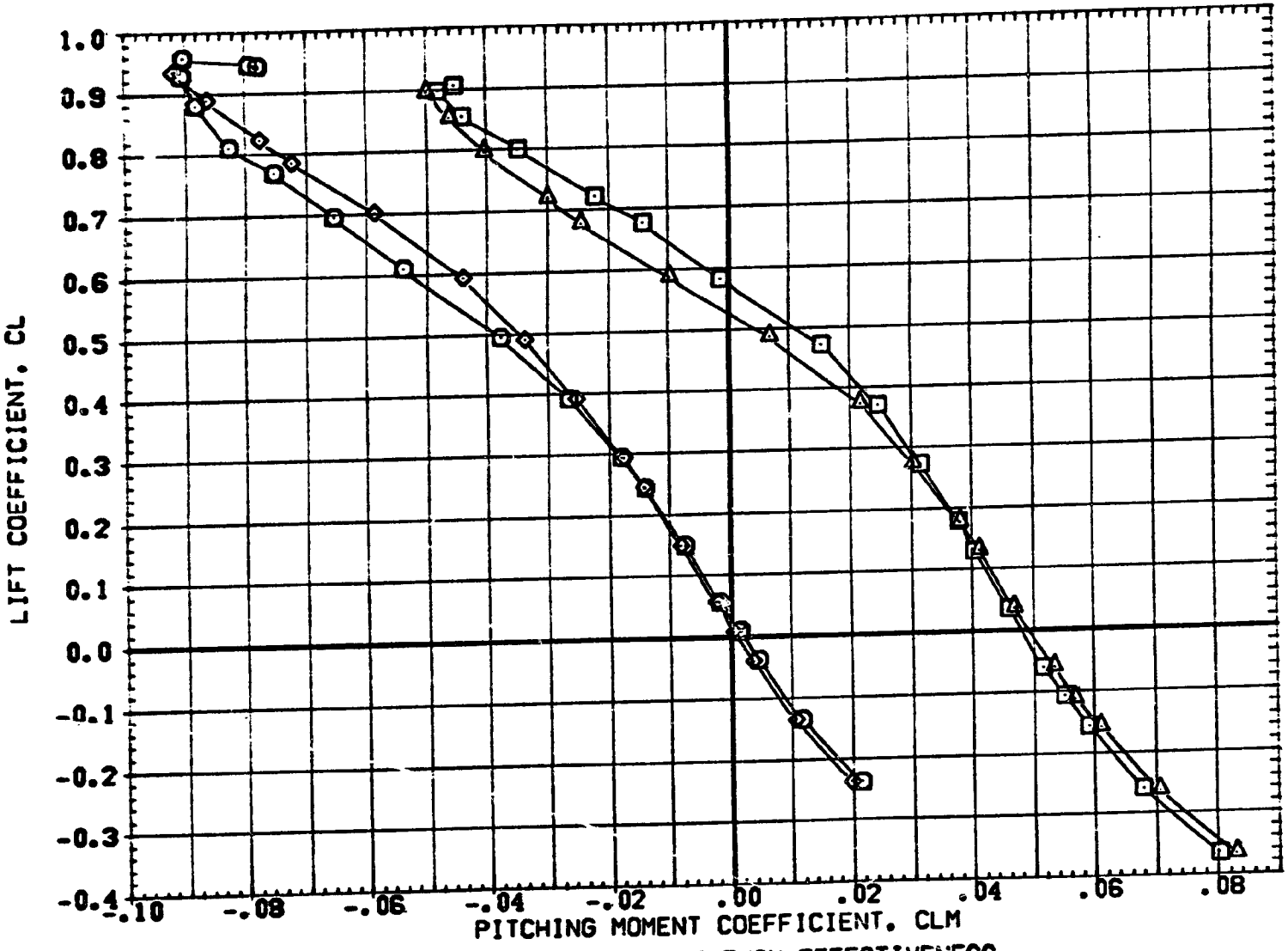


FIG. 45 EFFECT OF LEADING EDGE DROOP ON ELEVON EFFECTIVENESS

(A)MACH = 0.26

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	BETA	LE.MOD	B2FLAP	ELEVON
(ADF084)	○	SSV-ATP ORBITER B2C2D2N1F1W2V3K2	0.000		0.000	
(ADF097)	△	SSV-ATP ORBITER B2C2D2N1F1W2E2V3K2	0.000		0.000	-5.000
(ADF117)	◇	SSV-ATP ORBITER B2C2D2N1F1W35V3K2	0.000	12.000	0.000	
(ADF114)	□	SSV-ATP ORBITER B2C2D2N1F1W35E2V3K2	0.000	12.000	0.000	-5.000

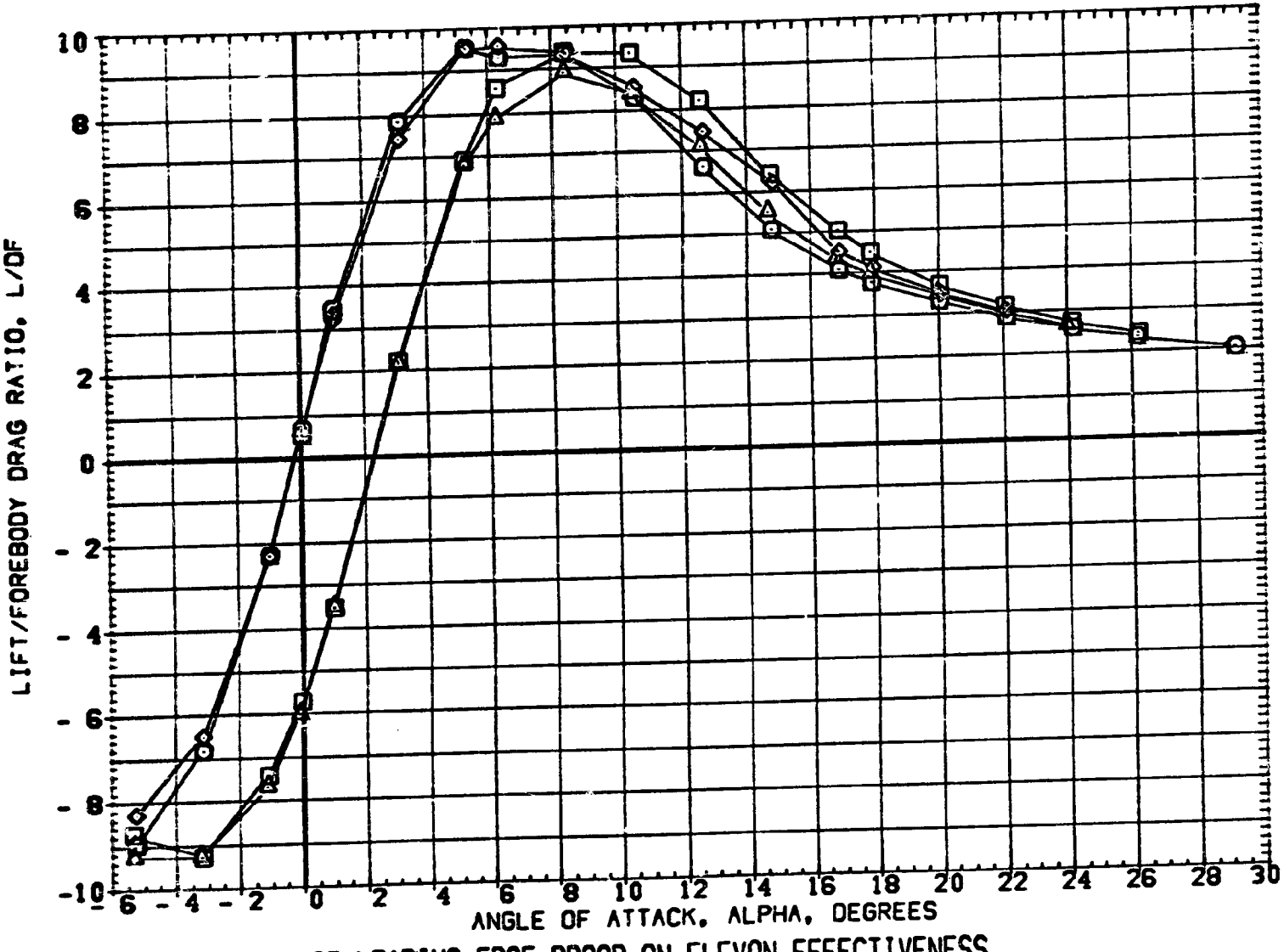


FIG. 45 EFFECT OF LEADING EDGE DROOP ON ELEVON EFFECTIVENESS

(A)MACH = 0.26

(ACP087) SSV-ATP ORBITER B2C2D2M1F1W35V3K2 0.000 12.000 0.000
(ACP117) SSV-ATP ORBITER B2C2D2M1F1W39E2V3K2 0.000 12.000 0.000 -9.000
(ACP114)

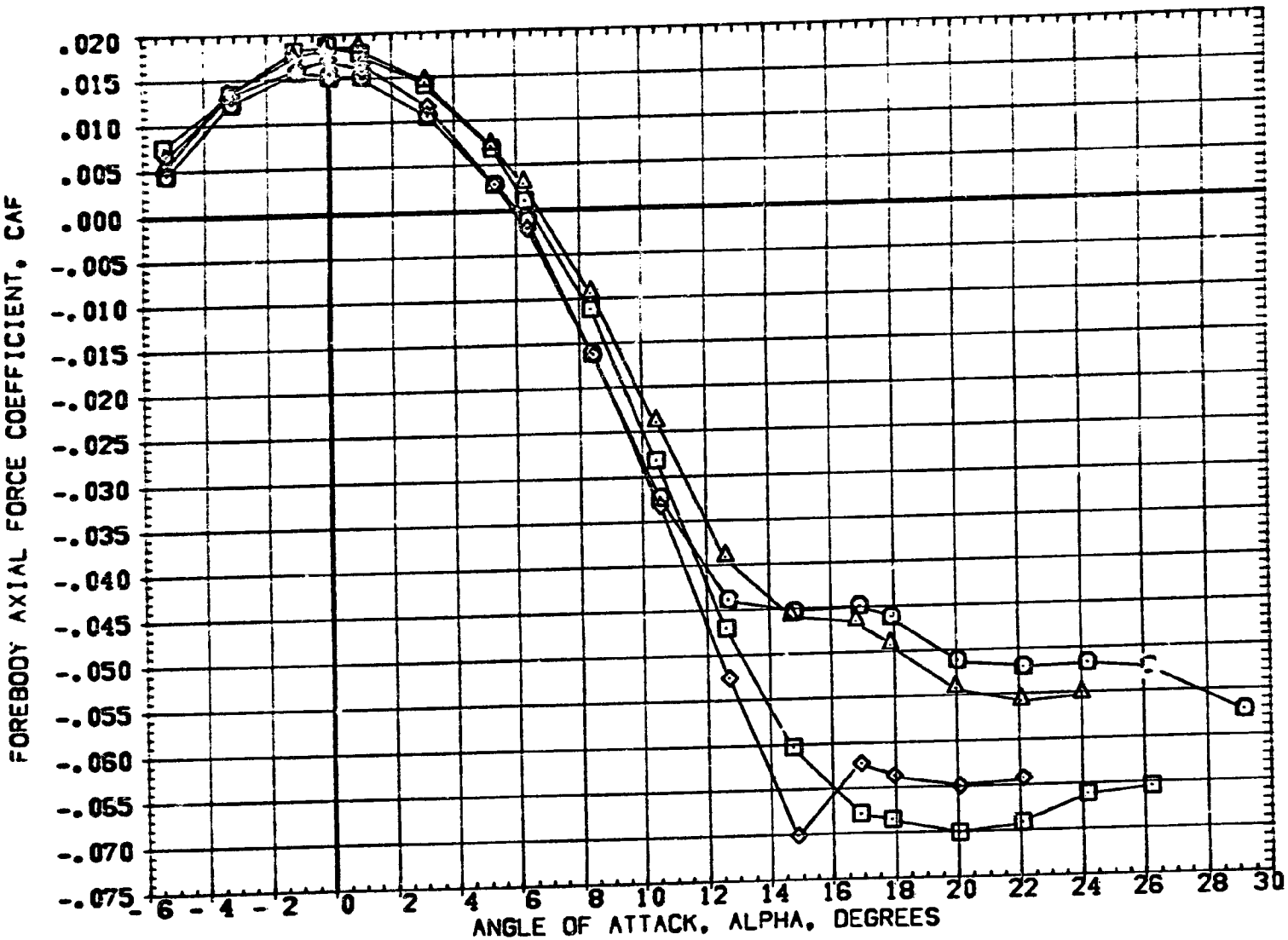


FIG. 45 EFFECT OF LEADING EDGE DROOP ON ELEVON EFFECTIVENESS

(A)MACH = 0.26

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(ADF084)	○	SSV-ATP ORBITER B2C2D2M1F1W2V3K2
(ADF082)	△	SSV-ATP ORBITER B2C2D2M1F1W2E2V3K2
(ADF117)	◇	SSV-ATP ORBITER B2C2D2M1F1W33V3K2
(ADF114)	□	SSV-ATP ORBITER B2C2D2M1F1W33E2V3K2

BETA	LE.MOD	B/FLAP	ELEVON
0.000		0.000	
0.000		0.000	-5.000
0.000	12.000	0.000	
0.000	12.000	0.000	-5.000

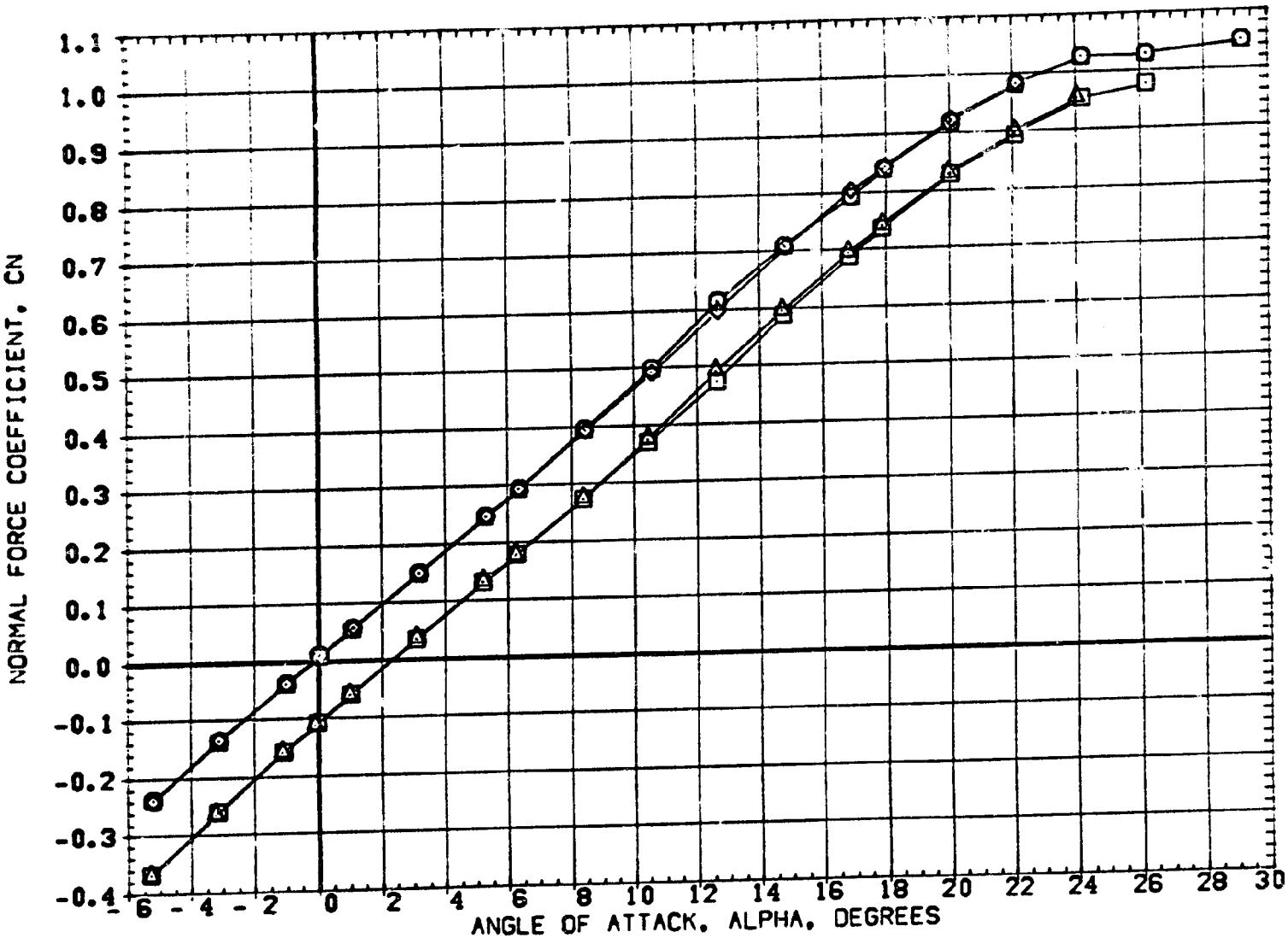


FIG. 45 EFFECT OF LEADING EDGE DROOP ON ELEVON EFFECTIVENESS

(A)MACH = 0.26

REPRODUCIBILITY OF THE ORIGINAL PAGE IS POOR

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	LE.MOD	DEFLAP	ELEVON
(A)F084	33V-ATP ORBITER B2C2D2M1F1W2V3K2	0.000		0.000	
(A)F087	33V-ATP ORBITER B2C2D2M1F1W2E2V3K2	0.000		0.000	-5.000
(A)F117	33V-ATP ORBITER B2C2D2M1F1W33V3K2	0.000	12.000	0.000	
(A)F114	33V-ATP ORBITER B2C2D2M1F1W33E2V3K2	0.000	12.000	0.000	-5.000

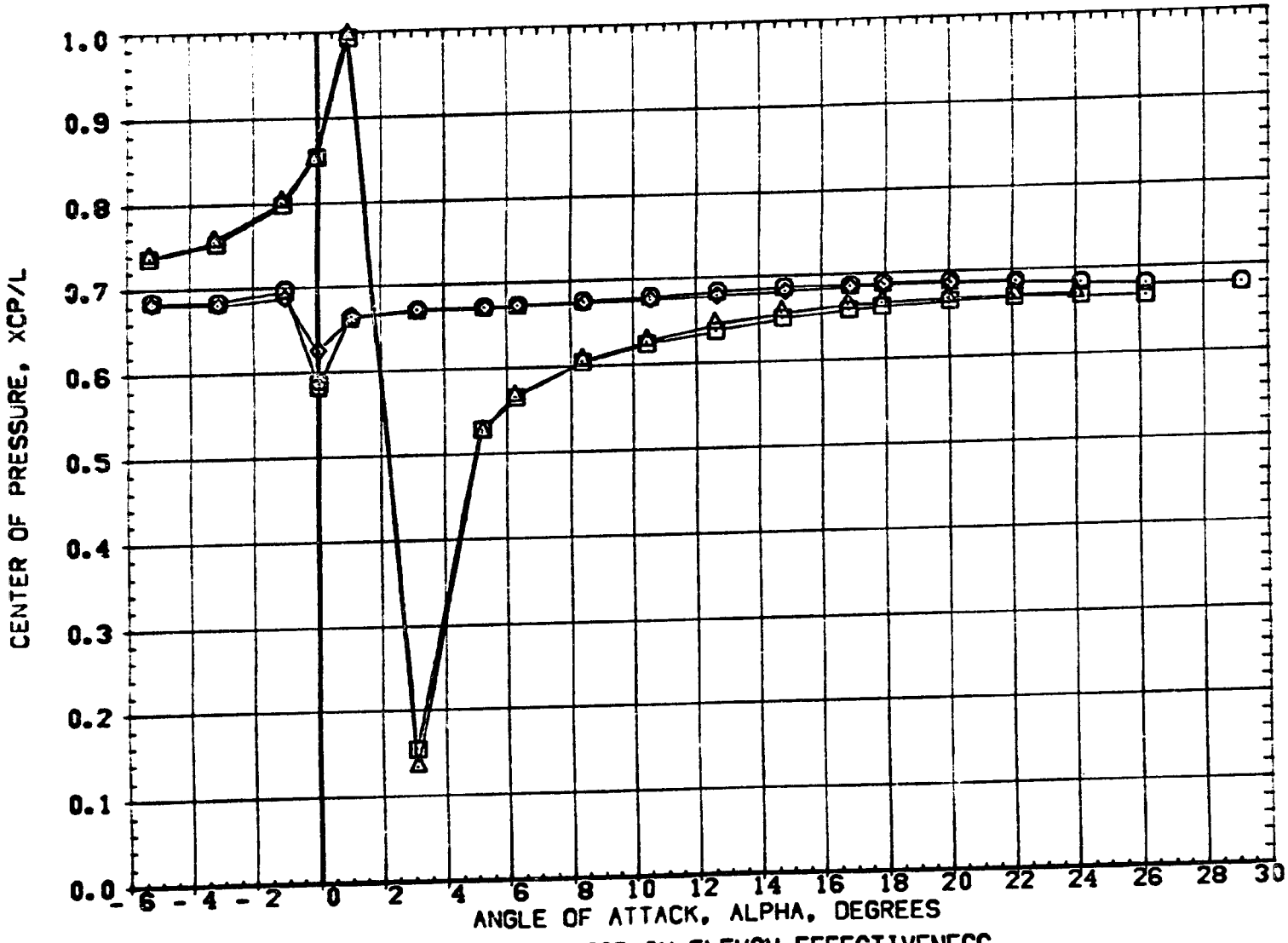


FIG. 45 EFFECT OF LEADING EDGE DROOP ON ELEVON EFFECTIVENESS

(A)MACH = 0.26

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	BETA	LE.MOD	B2FLAP	ELEVON
(ADF064)	○	SSV-ATP ORBITER B2C2D2M1F1W2V3R2	0.000		0.000	
(ADF097)	△	SSV-ATP ORBITER B2C2D2M1F1W2E2V3R2	0.000		0.000	-5.000
(ADF117)	◇	SSV-ATP ORBITER B2C2D2M1F1W35V3R2	0.000	12.000	0.000	
(ADF114)	□	SSV-ATP ORBITER B2C2D2M1F1W35E2V3R2	0.000	12.000	0.000	-5.000

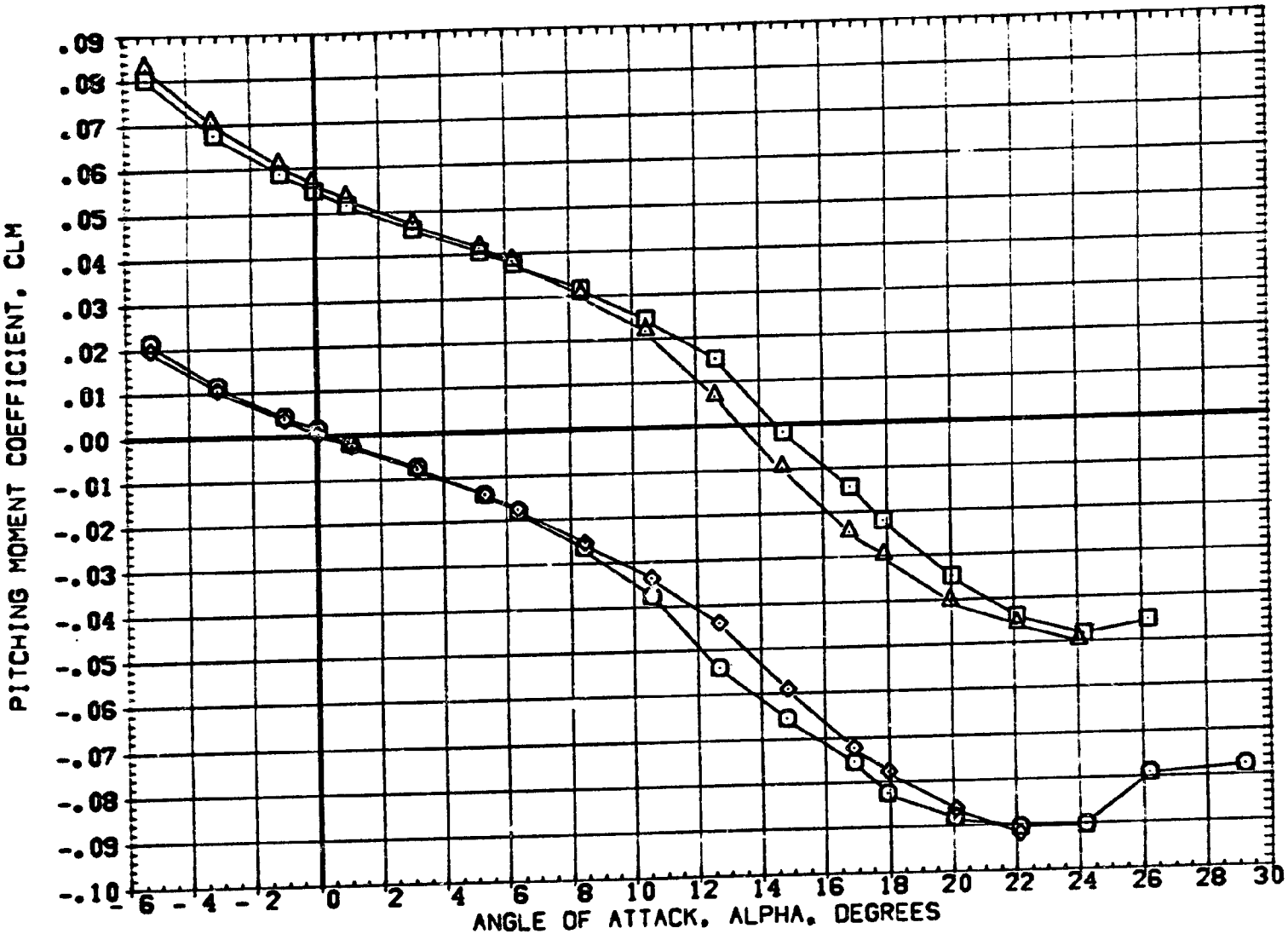


FIG. 45 EFFECT OF LEADING EDGE DROOP ON ELEVON EFFECTIVENESS

(A)MACH = 0.26

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	DELTA		
(ADF064)	○	SSV-ATP ORBITER B2C2D2M1F1WBV3R2	0.000		0.000
(ADF117)	△	SSV-ATP ORBITER B2C2D2M1F1W35V3R2	0.000	12.000	0.000
(ADF122)	◇	SSV-ATP ORBITER B2C2D2M1F1W35V3	0.000	12.000	0.000
(ADF124)	□	SSV-ATP ORBITER B2C2D3M1F1W35V3	0.000	12.000	0.000

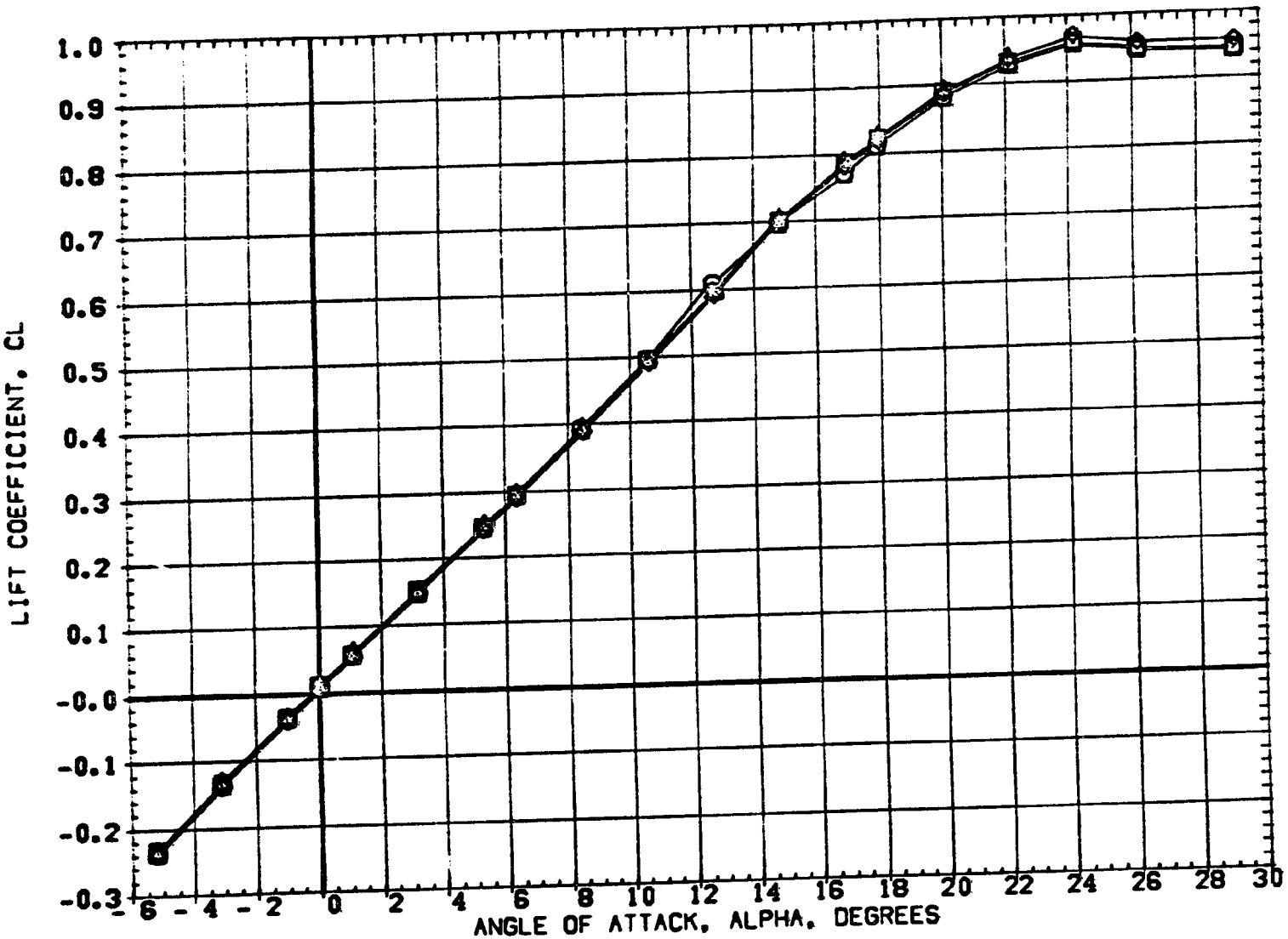


FIG. 46 EFFECT OF AIR COOLING POD AND MAH

(A)MACH = 0.26

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	BETA	LE.MOD	B2FLAP
(ADF064)	○	SSV-ATP ORBITER B2C2D2M1F1W2V3R2	0.000		0.000
(ADF119)	△	SSV-ATP ORBITER B2C2D2M1F1W3SV3R2	0.000	12.000	0.000
(ADF122)	◇	SSV-ATP ORBITER B2C2D2M1F1W3SV3	0.000	12.000	0.000
(ADF124)	□	SSV-ATP ORBITER B2C2D3M1F1W3SV3	0.000	12.000	0.000

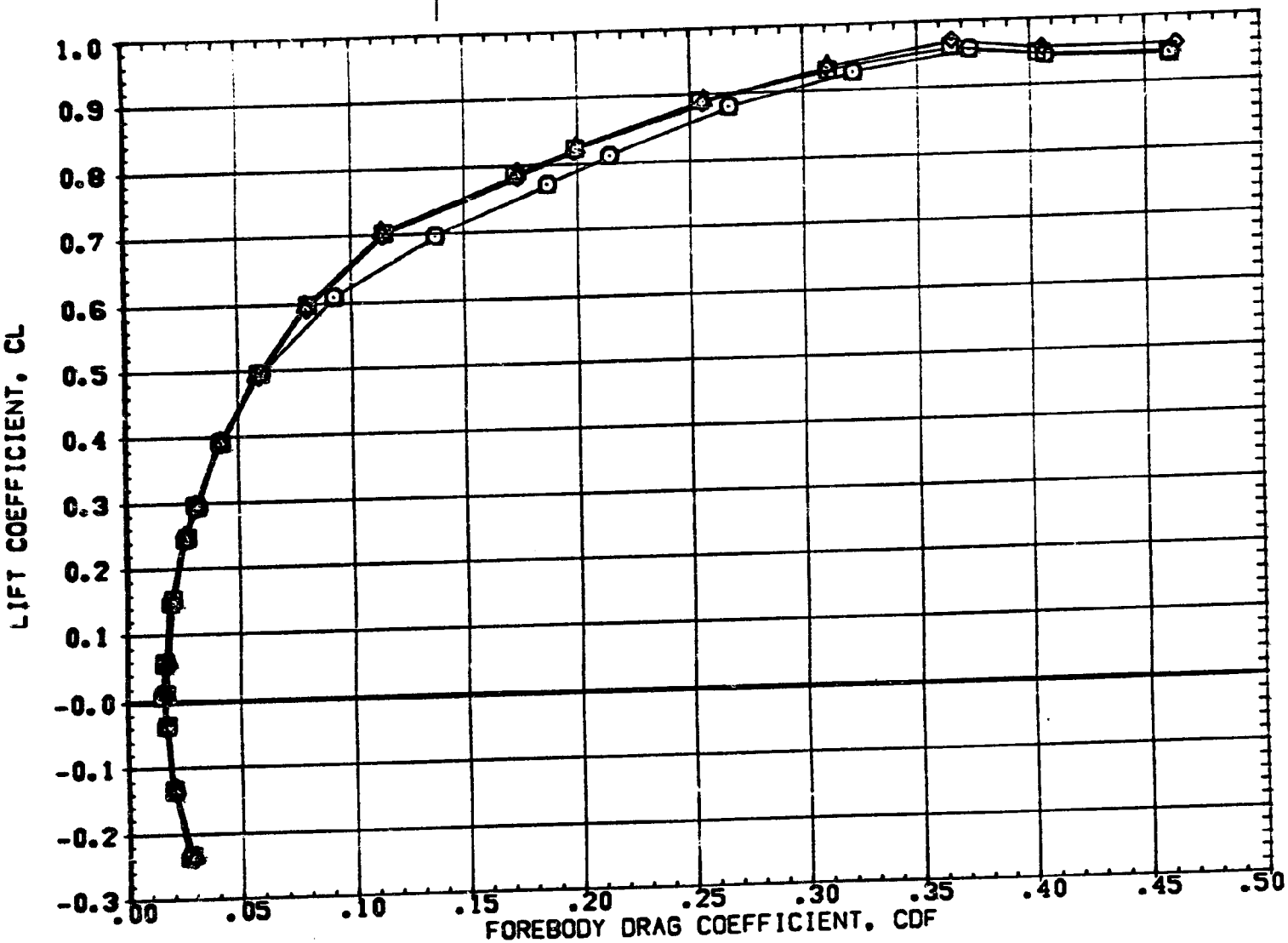


FIG. 46 EFFECT OF AIR COOLING POD AND MAH

(A)MACH = 0.26

DATA SET	SYMBOL	CONFIGURATION	DESCRIPTION	BETA	LE.WDD	UPLAT
(A)F064)	◇	SSV-ATP	ORBITER B2C2D2H1F1W2V3R2	0.000		0.000
(A)F117)	◇	SSV-ATP	ORBITER B2C2D2H1F1W35V3R2	0.000	12.000	0.000
(A)F122)	□	SSV-ATP	ORBITER B2C2D2H1F1W35V3	0.000	12.000	0.000
(A)F124)	□	SSV-ATP	ORBITER B2C2D3H1F1W35V3	0.000	12.000	0.000

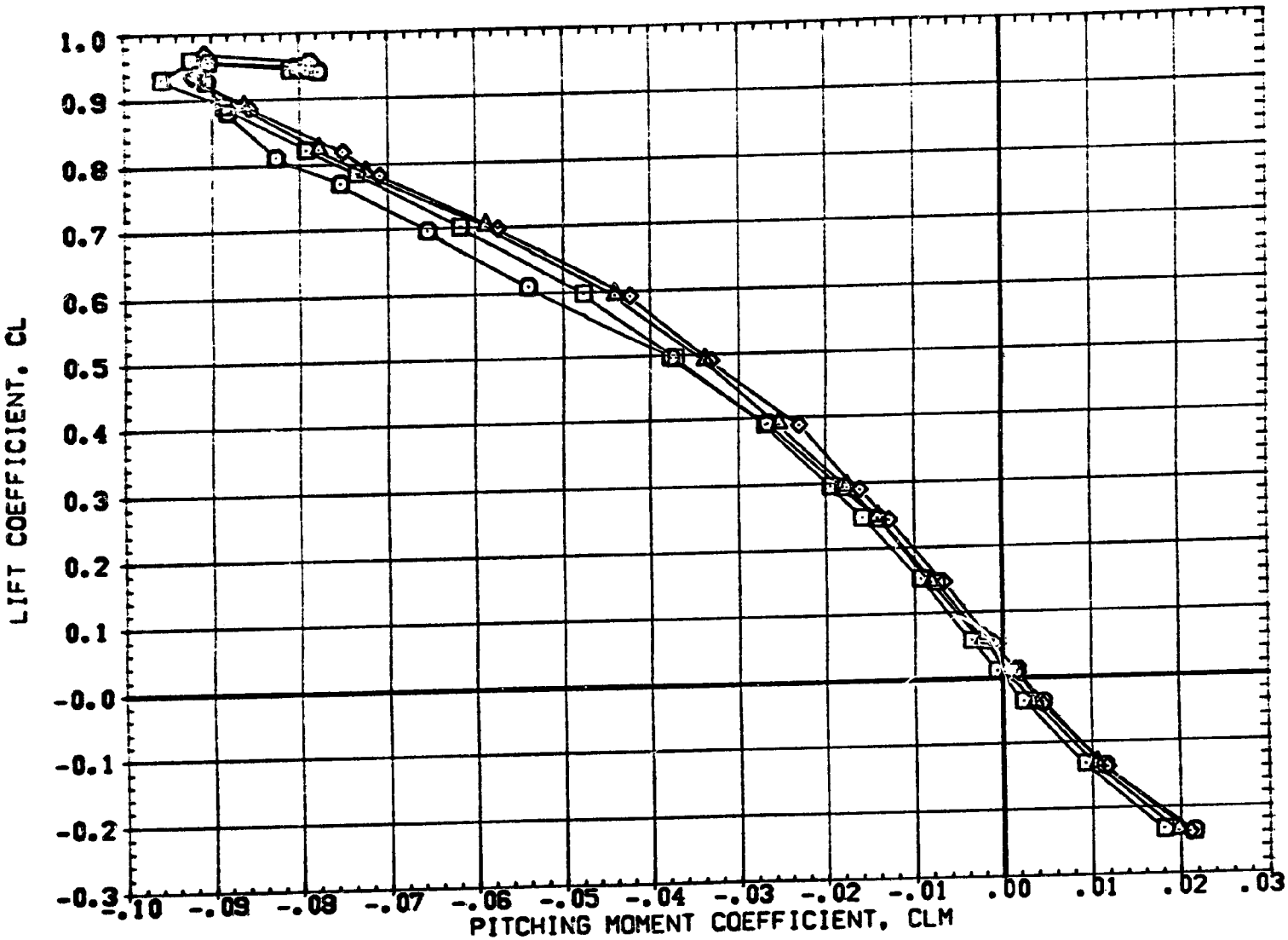


FIG. 46 EFFECT OF AIR COOLING POD AND MAH

(A)MACH = 0.26

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION		BETA	LE.MOD	B2FLAP
(A0F064)	○	SSV-ATP ORBITER	B2C2D2M1F1W2V3K2	0.000		0.000
(A0F117)	△	SSV-ATP ORBITER	B2C2D2M1F1W3SV3K2	0.000	12.000	0.000
(A0F122)	◇	SSV-ATP ORBITER	B2C2D2M1F1W3SV3	0.000	12.000	0.000
(A0F124)	□	SSV-ATP ORBITER	B2C2D3M1F1W3SV3	0.000	12.000	0.000

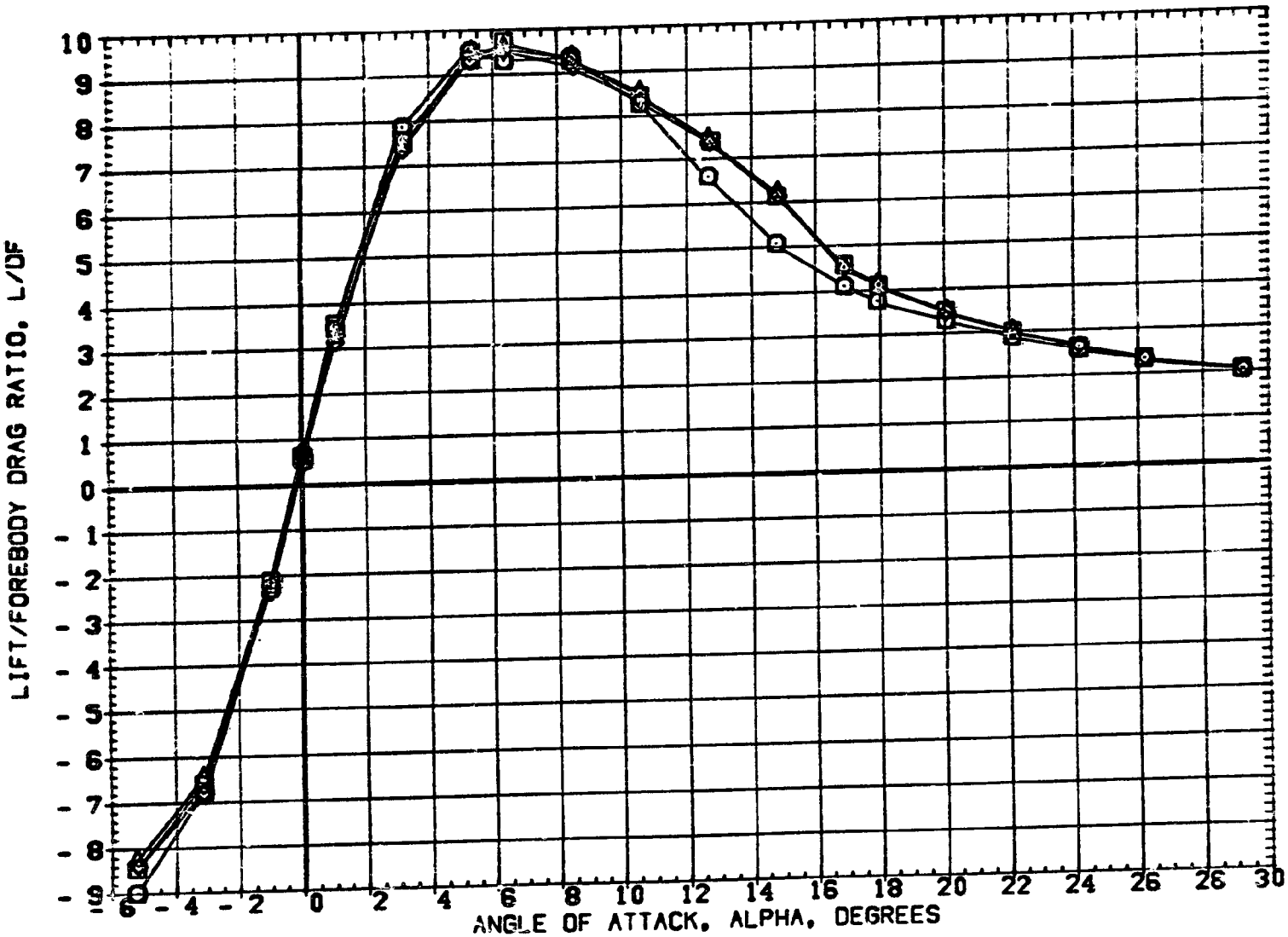


FIG. 46 EFFECT OF AIR COOLING POD AND MAH

(A)MACH = 0.26

(ADP304)		SSV-ATP ORBITER	B2C2D2M1F1W2V3K2	0.000	0.000
(ADP117)		SSV-ATP ORBITER	B2C2D2M1F1W3SV3K2	0.000 12.000	0.000
(ADP122)		SSV-ATP ORBITER	B2C2D2M1F1W3SV3	0.000 12.000	0.000
(ADP124)		SSV-ATP ORBITER	B2C2D3M1F1W3SV3	0.000 12.000	0.000

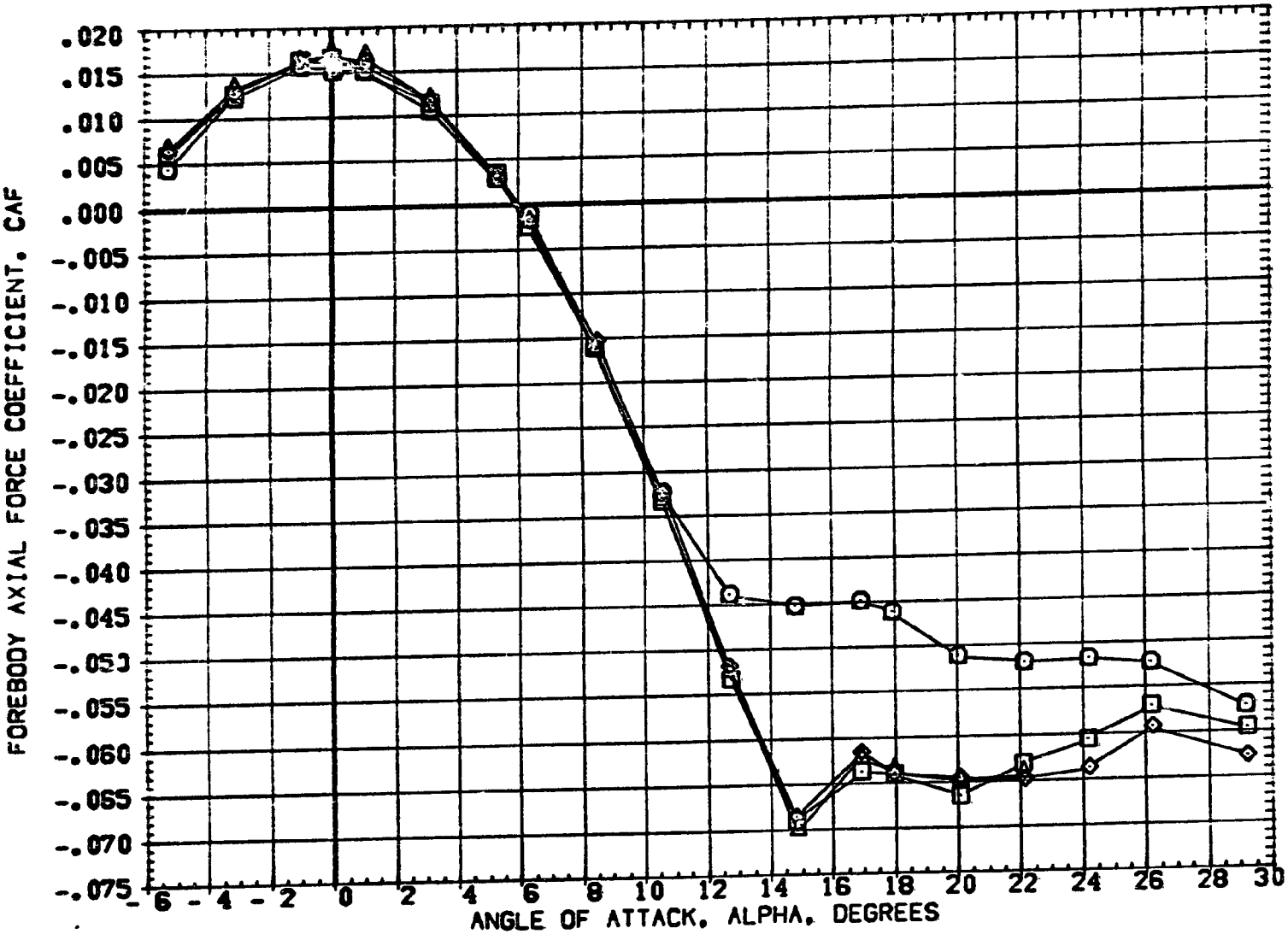


FIG. 46 EFFECT OF AIR COOLING POD AND MAH

(A)MACH = 0.26

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	BETA	LE.MOD	BEFLAP
(ADF084)	○	SSV-ATP ORBITER B2C2D2N1F1W2V3R2	0.000		0.000
(ADF117)	△	SSV-ATP ORBITER B2C2D2N1F1W3SV3R2	0.000	12.000	0.000
(ADF122)	◇	SSV-ATP ORBITER B2C2D2N1F1W3SV3	0.000	12.000	0.000
(ADF124)	□	SSV-ATP ORBITER B2C2D3N1F1W3SV3	0.000	12.000	0.000

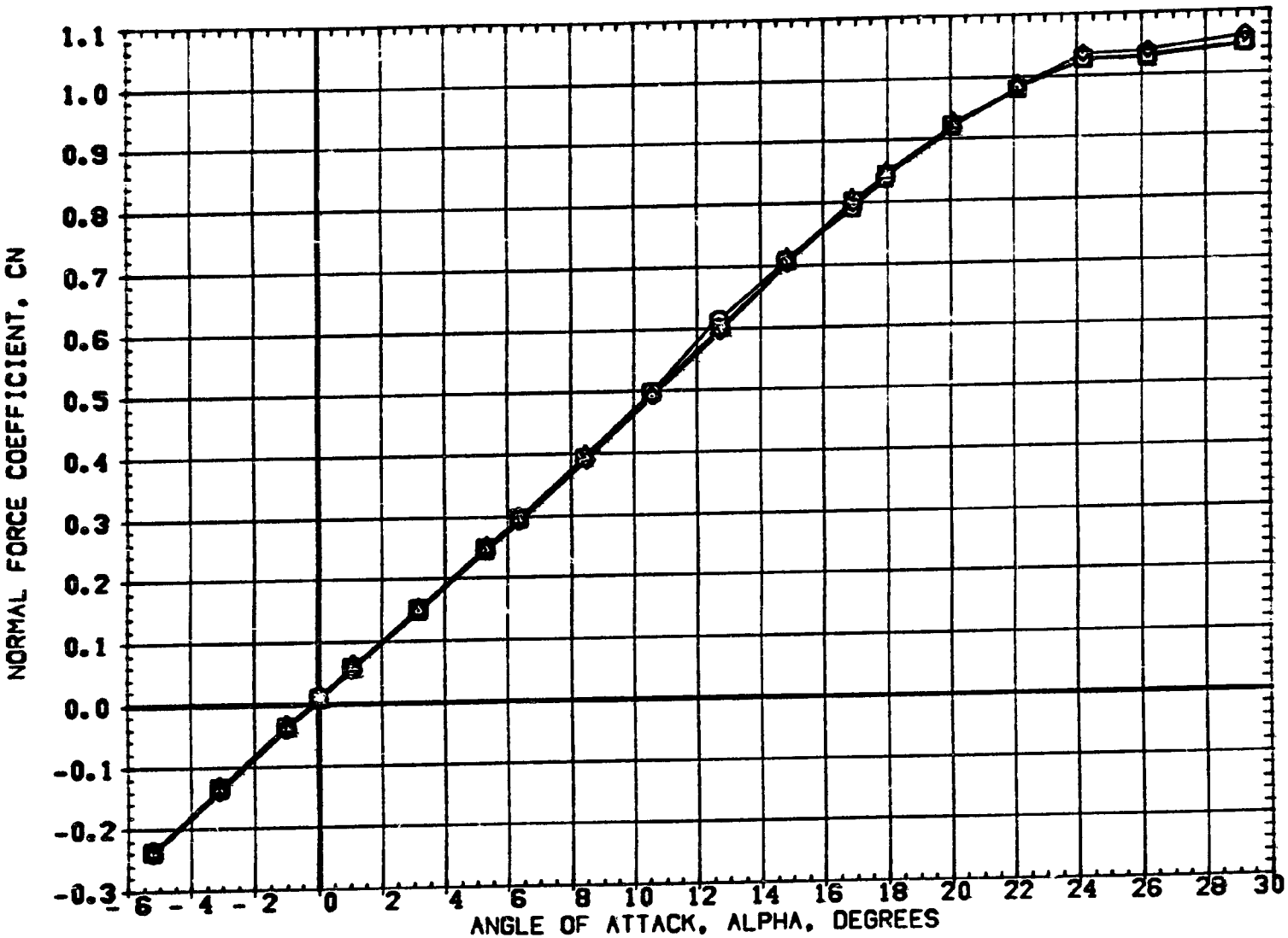


FIG. 46 EFFECT OF AIR COOLING POD AND MAH

(A)MACH = 0.26

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	BETA	LE.MOD	BFLAP
(ADP384)	○	SSV-ATP ORBITER B2C2D2M1F1W2V3R2	0.000		0.000
(ADP117)	△	SSV-ATP ORBITER B2C2D2M1F1W3SV3R2	0.000	12.000	0.000
(ADP122)	◇	SSV-ATP ORBITER B2C2D2M1F1W3SV3	0.000	12.000	0.000
(ADP124)	□	SSV-ATP ORBITER B2C2D3M1F1W3SV3	0.000	12.000	0.000

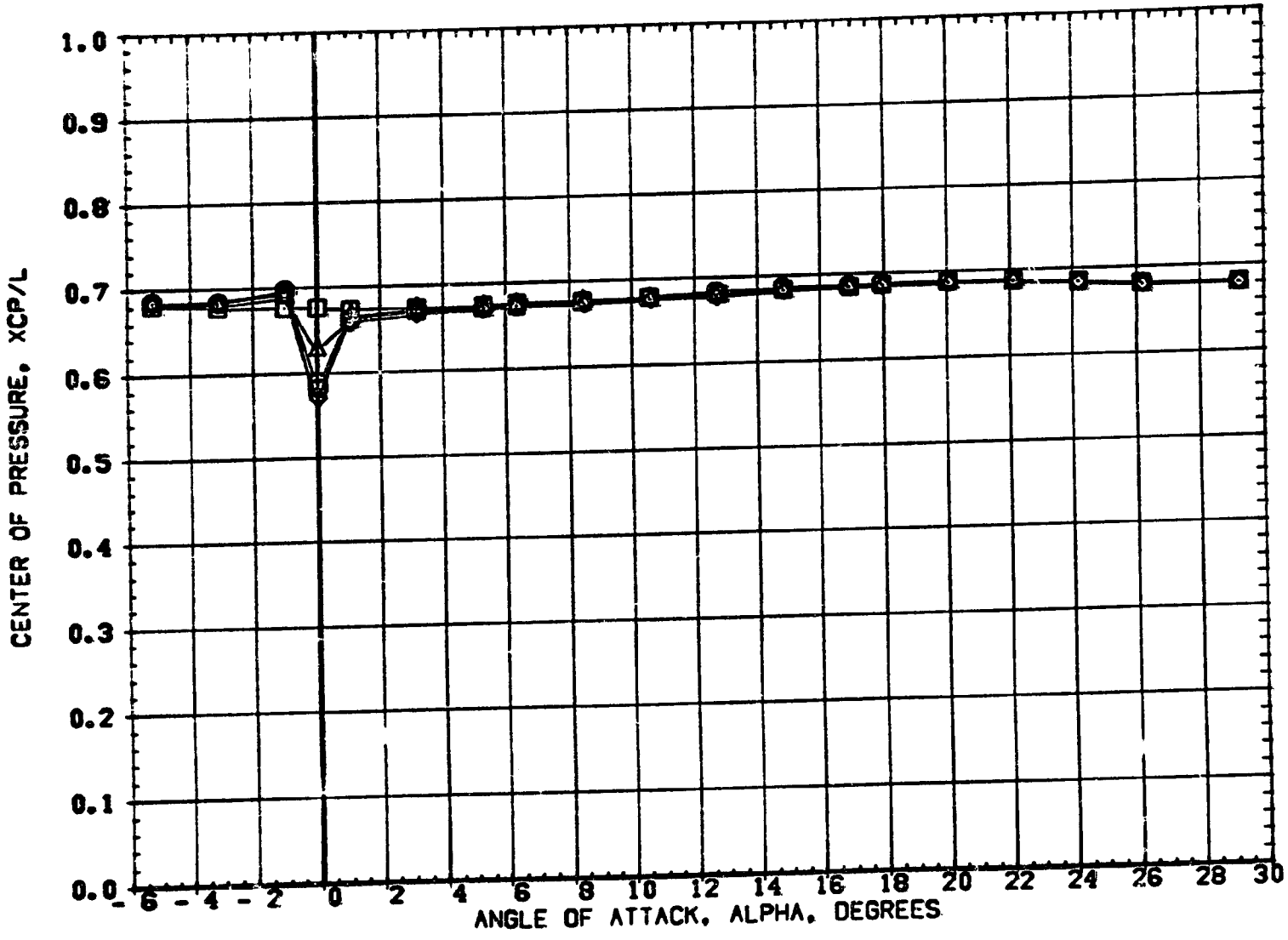


FIG. 46 EFFECT OF AIR COOLING POD AND MAH

(A)MACH = 0.26

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	BETA	LE.MOD	B2FLAP
(ADP084)	○	SSV-ATP ORBITER B2C2D2M1F1W2V3K2	0.000		0.000
(ADP117)	△	SSV-ATP ORBITER B2C2D2M1F1W3SV3K2	0.000	12.000	0.000
(ADP122)	◇	SSV-ATP ORBITER B2C2D2M1F1W3SV3	0.000	12.000	0.000
(ADP124)	□	SSV-ATP ORBITER B2C2D3M1F1W3SV3	0.000	12.000	0.000

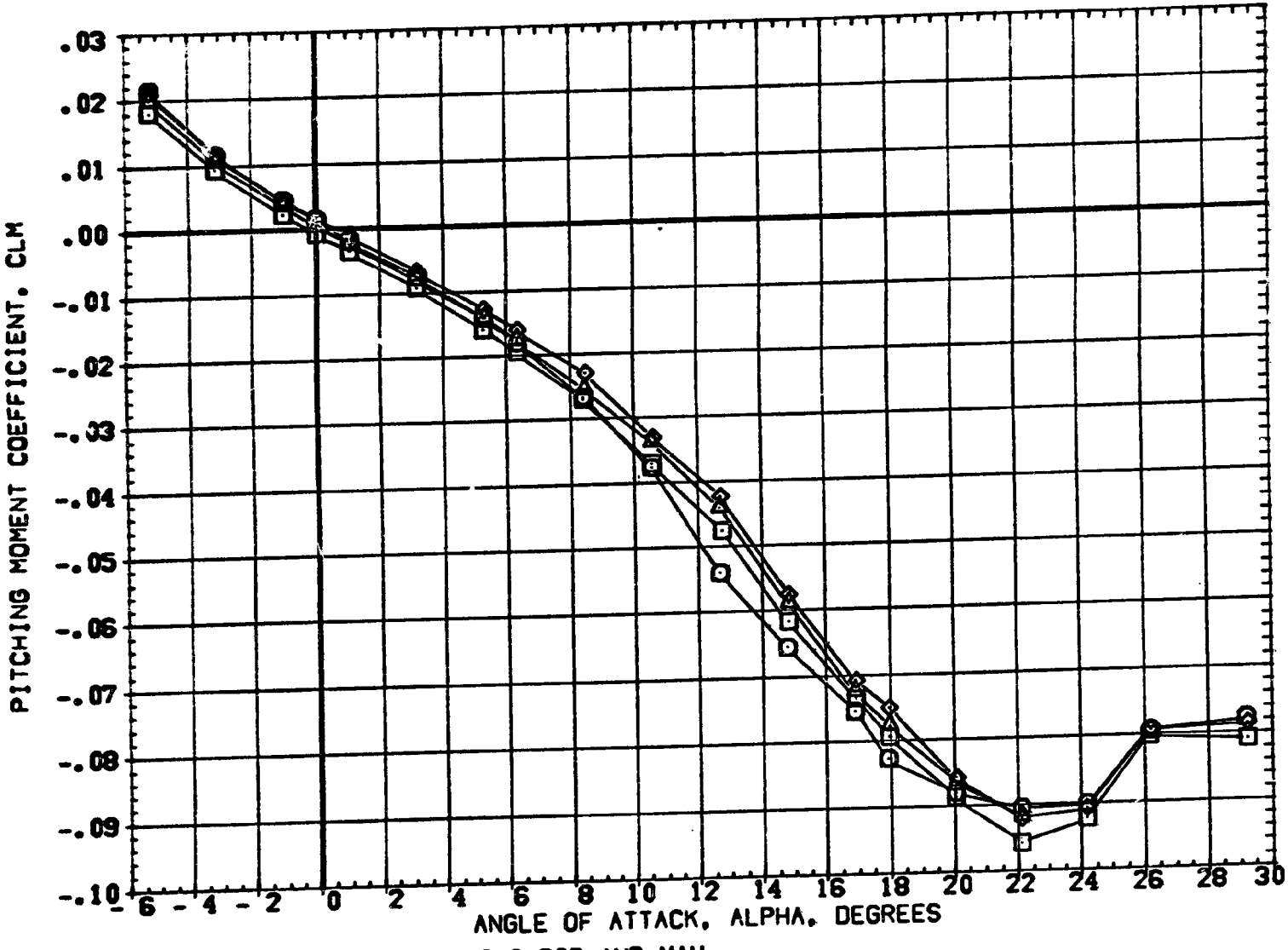


FIG. 46 EFFECT OF AIR COOLING POD AND MAH

(A)MACH = 0.26

DATA SET SYMBOL	CONFIGURATION DESCRIPTION			
(BDP122)	SSV-ATP ORBITER	B2C2D2H1F1W3SV3	0.000	12.000	0.000
(BDP123)	SSV-ATP ORBITER	B2C2D2H1F1W3SV3	5.000	12.000	0.000
(BDP124)	SSV-ATP ORBITER	B2C2D3H1F1W3SV3	0.000	12.000	0.000
(BDP125)	SSV-ATP ORBITER	B2C2D3H1F1W3SV3	5.000	12.000	0.000

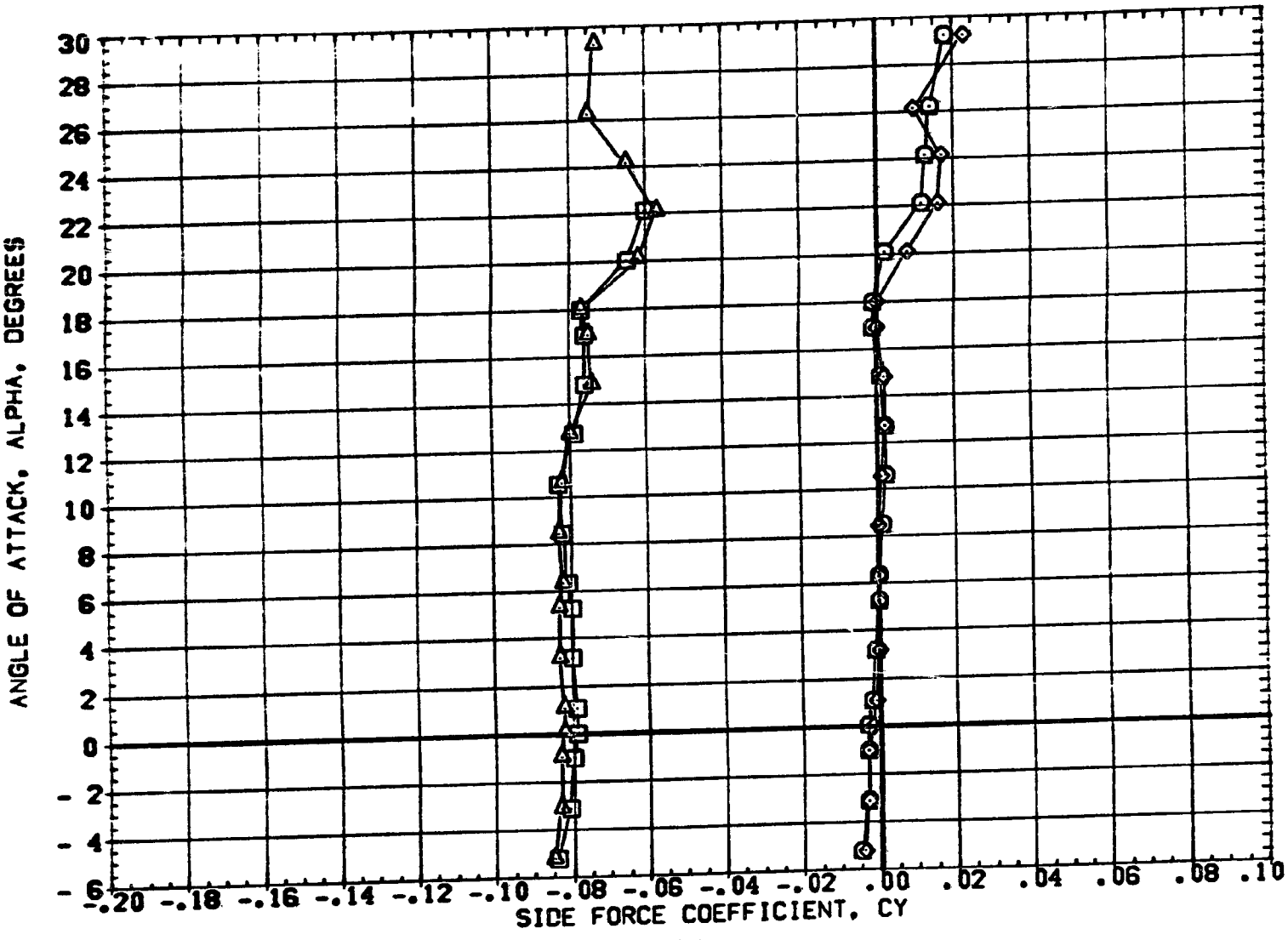


FIG. 47 EFFECT OF AIR COOLING POD AND MAH

(A)MACH = 0.26

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	BETA	LE.MOD	B2FLAP
(BDF122)	○	SSV-ATP ORBITER B2C2D2M1F1W3SV3	0.000	12.000	0.000
(BDF123)	△	SSV-ATP ORBITER B2C2D2M1F1W3SV3	5.000	12.000	0.000
(BDF124)	◇	SSV-ATP ORBITER B2C2D3M1F1W3SV3	0.000	12.000	0.000
(BDF129)	□	SSV-ATP ORBITER B2C2D3M1F1W3SV3	5.000	12.000	0.000

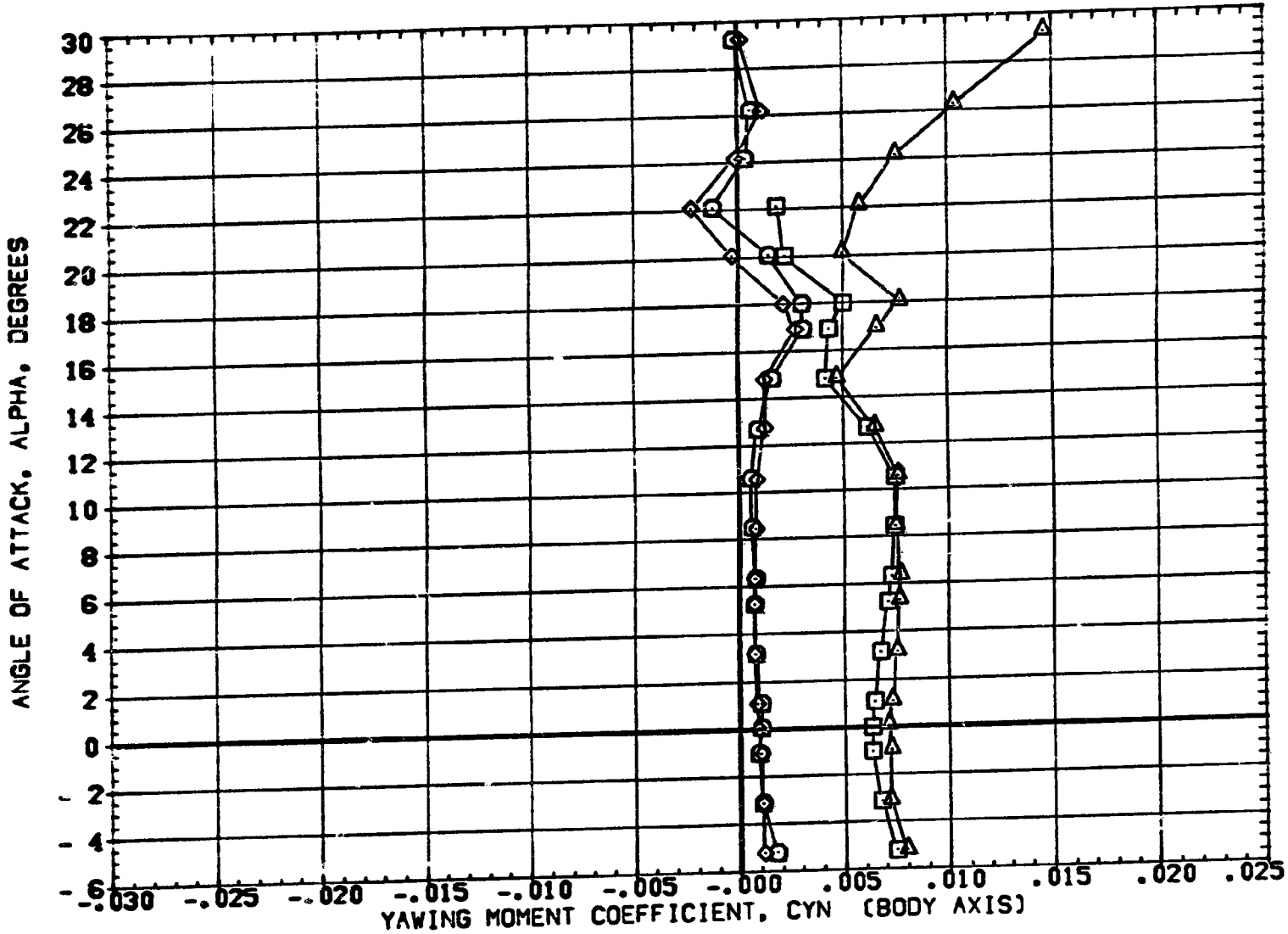


FIG. 47 EFFECT OF AIR COOLING POD AND MAH

(A)MACH = 0.26

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(EOF122)		SSV-ATP ORBITER B2C2D2N1F1W3SV3
(EOF123)		SSV-ATP ORBITER B2C2D2N1F1W3SV3
(EOF124)		SSV-ATP ORBITER B2C2D3N1F1W3SV3
(EOF125)		SSV-ATP ORBITER B2C2D3N1F1W3SV3

BETA	LE.MOD	B2FLAP
0.000	12.000	0.000
5.000	12.000	0.000
0.000	12.000	0.000
5.000	12.000	0.000

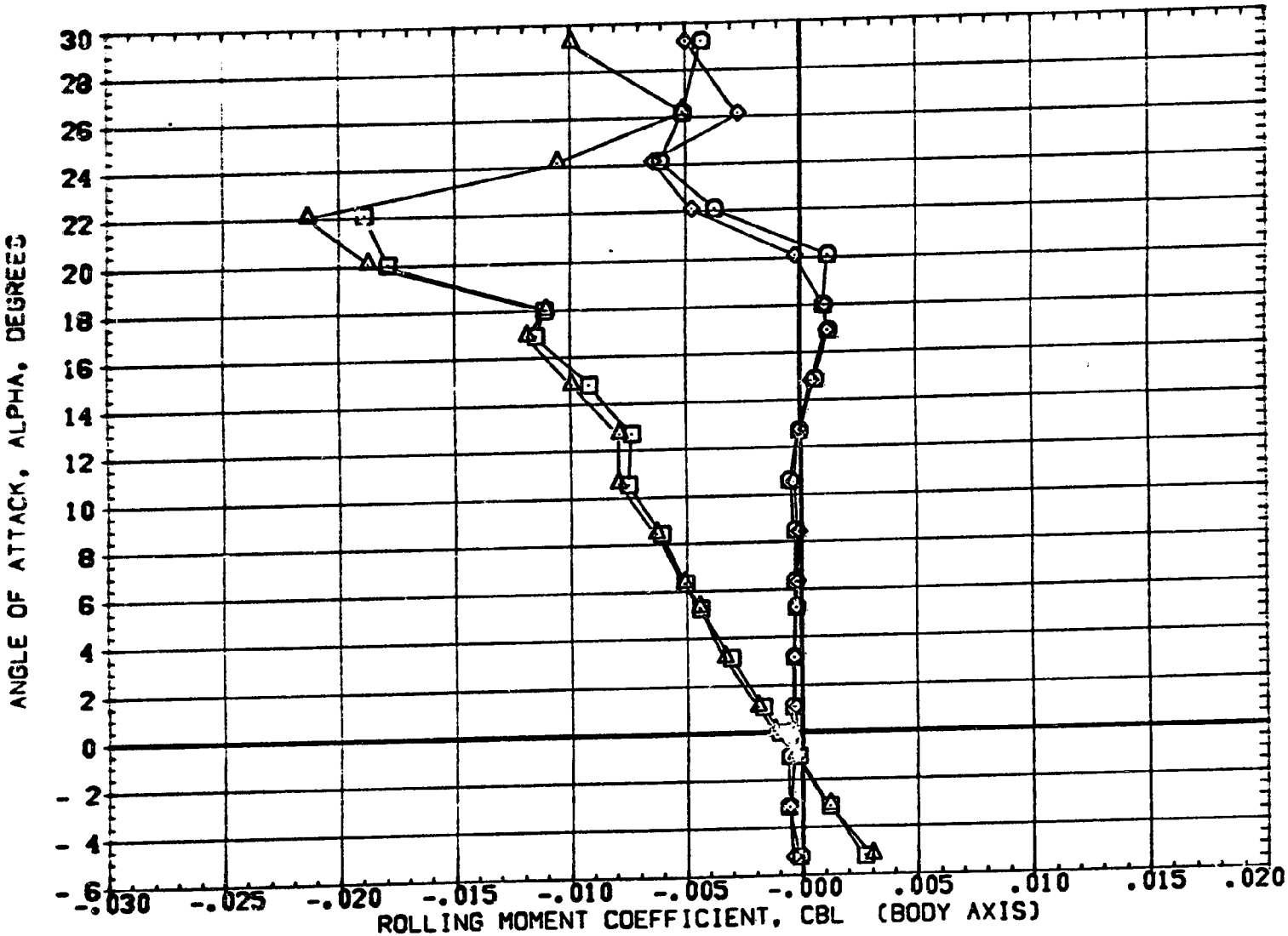


FIG. 47 EFFECT OF AIR COOLING POD AND MAH

(A)MACH = 0.26

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	B2FLAP	RUDDER
(0DF5641)	55V-ATP ORBITER B2C2D2M1F1W2V3R2	0.000	0.000	
(0DF1291)	55V-ATP ORBITER B2C2D2M1F1W2V3R2	0.000	0.000	-10.000
(0DF1341)	55V-ATP ORBITER B2C2D2M1F1W2V3R2	0.000	0.000	-20.000

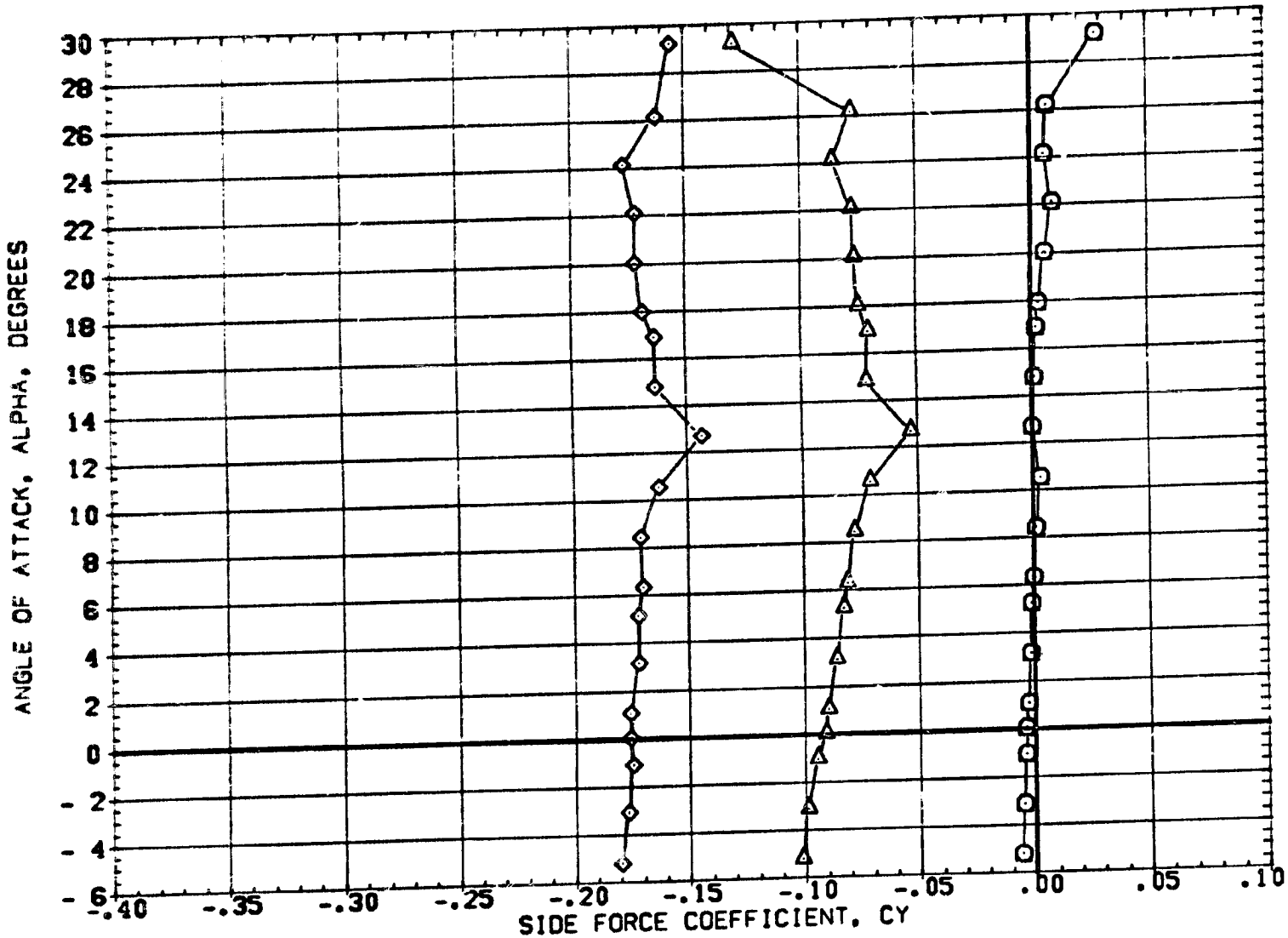


FIG. 48 RUDDER EFFECTIVENESS, WING ON

(A)MACH = 0.26

REPRODUCIBILITY OF THE ORIGINAL PAGE IS POOR

(BOF064) SSV-AYD ORBITER B2C2D2M1F1W2V3R3K2 0.000 0.000 -10.000
(BOF129) SSV-ATP ORBITER B2C2D2M1F1W2V3R3K2 0.000 0.000 -20.000
(BOF136)

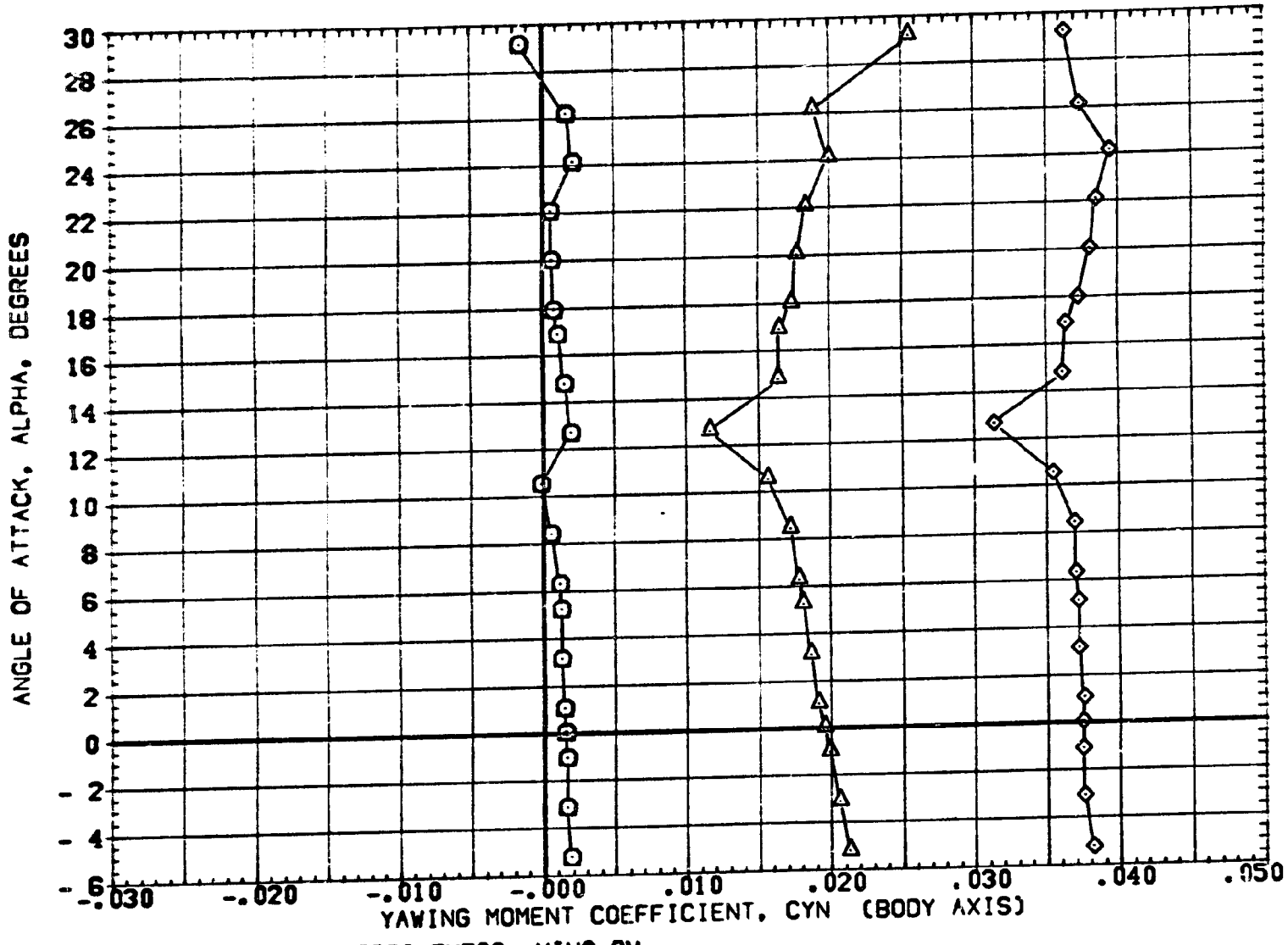


FIG. 48 RUDDER EFFECTIVENESS, WING ON

(A)MACH = 0.26

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	BETA	B2FLAP	RUDDER
(80F084)	○	SSV-ATP ORBITER B2C2D2M1F1W2V3R2	0.000	0.000	
(80F129)	△	SSV-ATP ORBITER B2C2D2M1F1W2V3R3R2	0.000	0.000	-10.000
(80F130)	◇	SSV-ATP ORBITER B2C2D2M1F1W2V3R3:.2	0.000	0.000	-20.000

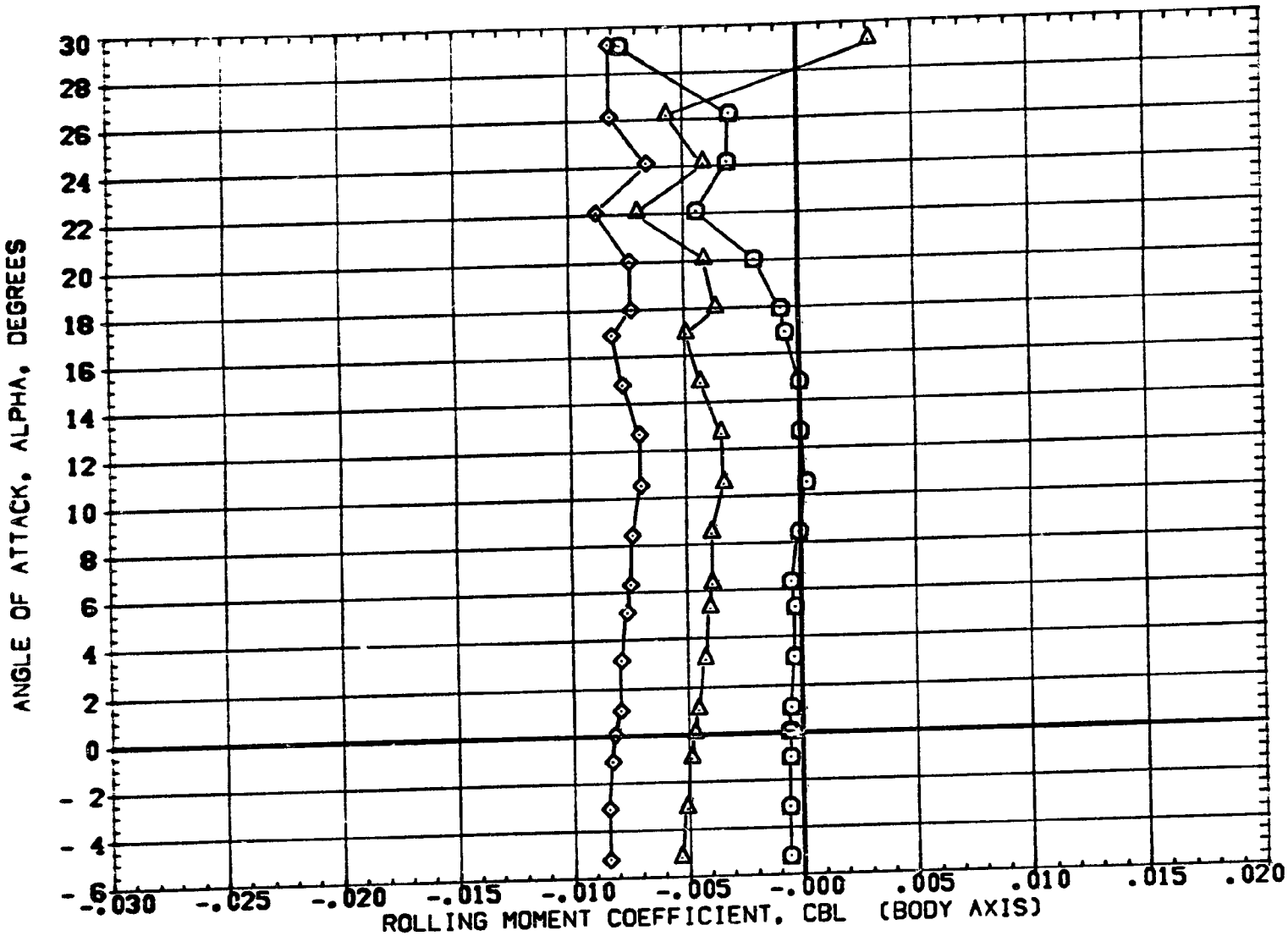


FIG. 48 RUDDER EFFECTIVENESS, WING ON

(A)MACH = 0.26

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	BETA	B2FLAP	RUDDER
(BDF147)	○	SSV-ATP ORBITER B2C2D2M1F1V3R2	0.000	0.000	
(BDF154)	△	SSV-ATP ORBITER B2C2D2M1F1V3R3R2	0.000	0.000	-10.000
(BDF161)	◇	SSV-ATP ORBITER B2C2D2M1F1V3R3R2	0.000	0.000	-20.000

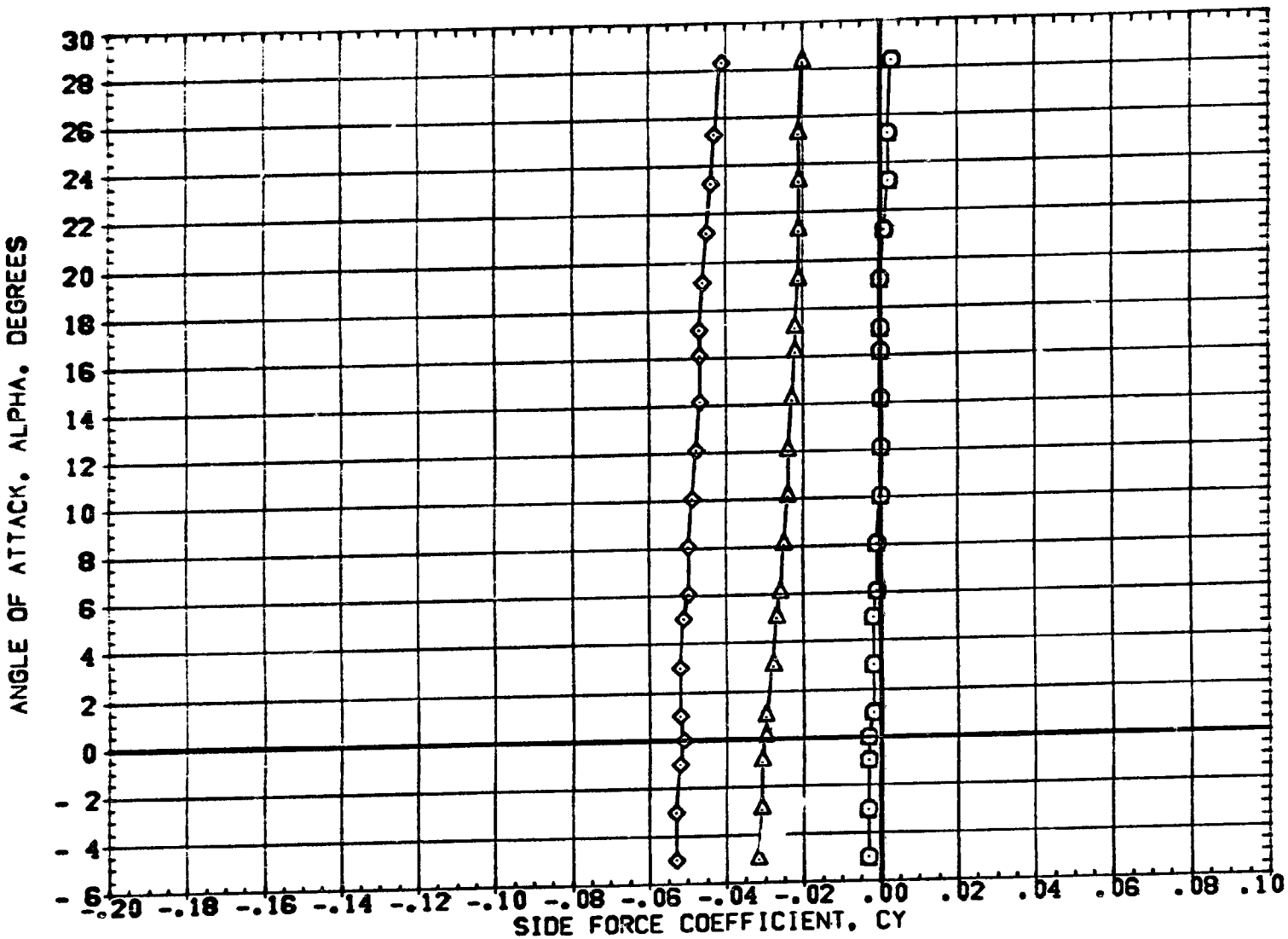


FIG. 49 RUDDER EFFECTIVENESS, WING OFF

(A)MACH = 0.26

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	BETA	B2FLAP	RUDDER
(BDF147)	○	SSV-ATP ORBITER B2C2D2M1F1V3K2	0.000	0.000	
(BDF134)	△	SSV-ATP ORBITER B2C2D2M1F1V3R3K2	0.000	0.000	-10.000
(BDF161)	◇	SSV-ATP ORBITER B2C2D2M1F1V3R3K2	0.000	0.000	-20.000

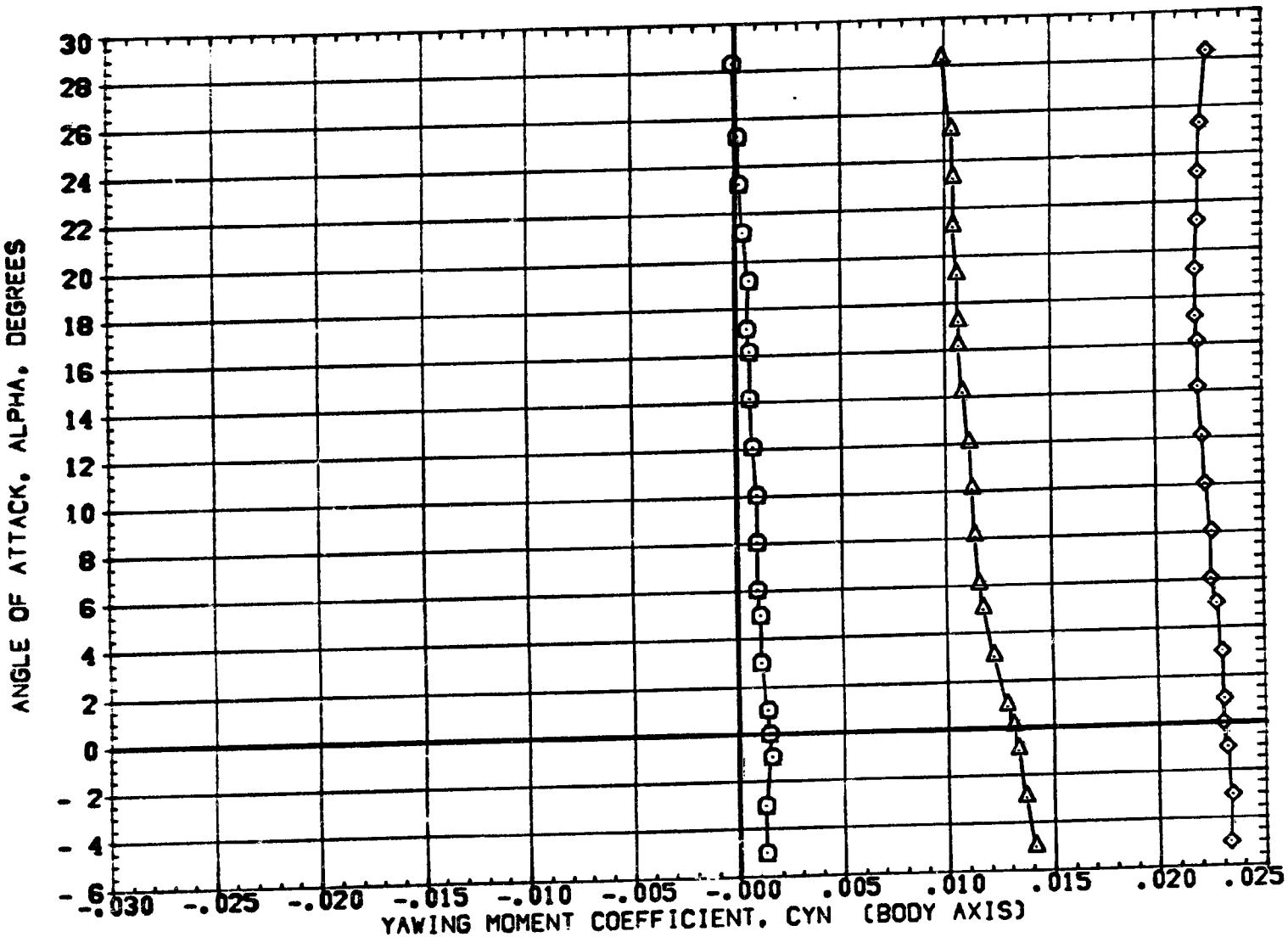


FIG. 49 RUDDER EFFECTIVENESS, WING OFF

(A)MACH = 0.26

(BDF147)	SSV-ATP ORBITER	B2C2D2M1F1V3R2	0.000	0.000	
(BDF194)	SSV-ATP ORBITER	B2C2D2M1F1V3R3R2	0.000	0.000	-10.000
(BDF181)	SSV-ATP ORBITER	B2C2D2M1F1V3R3K2	0.000	0.000	-20.000

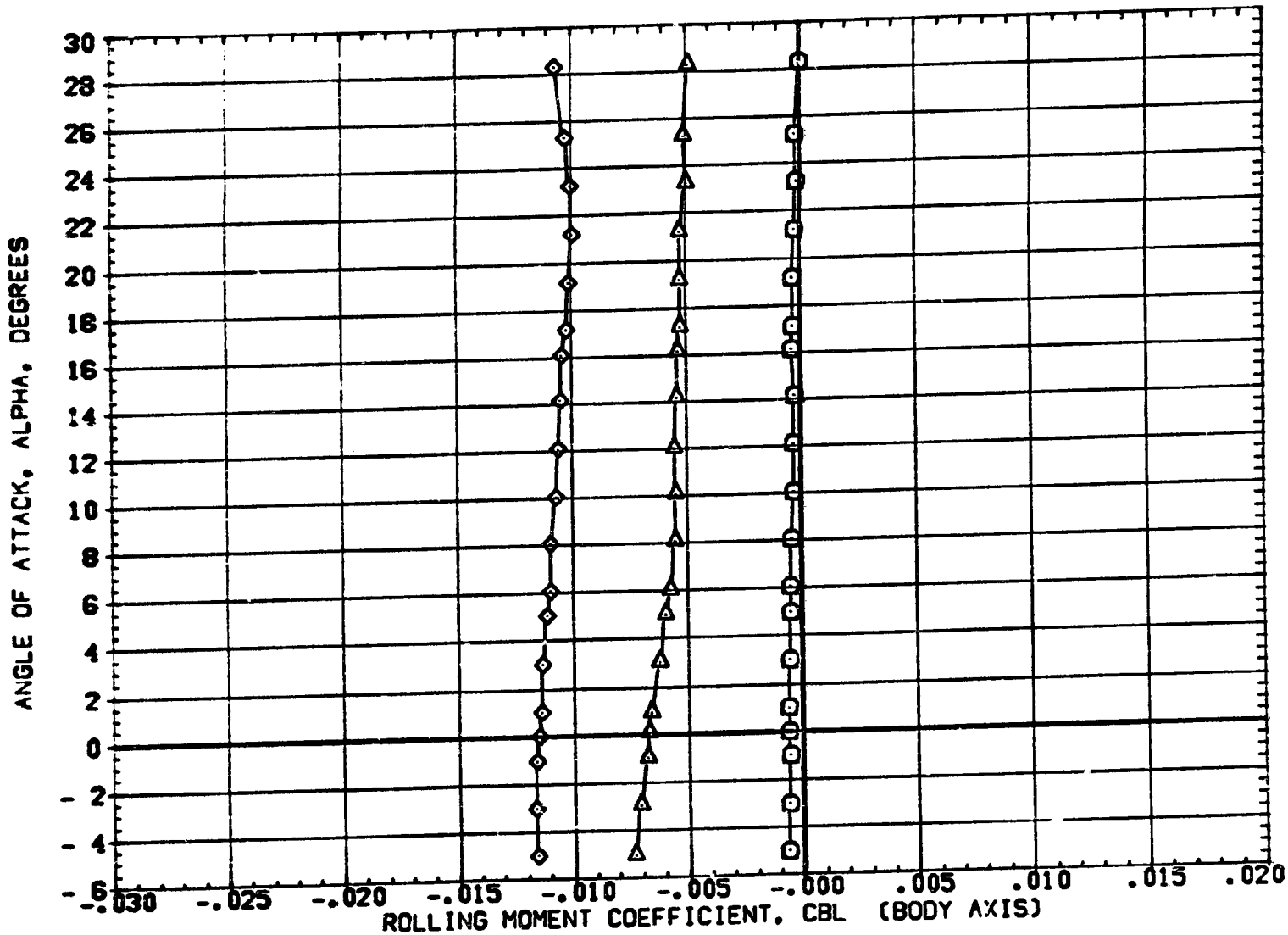


FIG. 49 RUDDER EFFECTIVENESS, WING OFF

(A)MACH = 0.26

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	BETA	BZFLAP	RUDFLR
(BDF084)	○	SSV-ATP ORBITER B2C2D2M1F1W2V3K2	0.000	0.000	
(BDF091)	△	SSV-ATP ORBITER B2C2D2M1F1W2V3K2	5.000	0.000	
(BDF102)	◇	SSV-ATP ORBITER B2C2D2M1F1W2V3K2	0.000	0.000	10.000
(BDF103)	□	SSV-ATP ORBITER B2C2D2M1F1W2V3K2	5.000	0.000	10.000

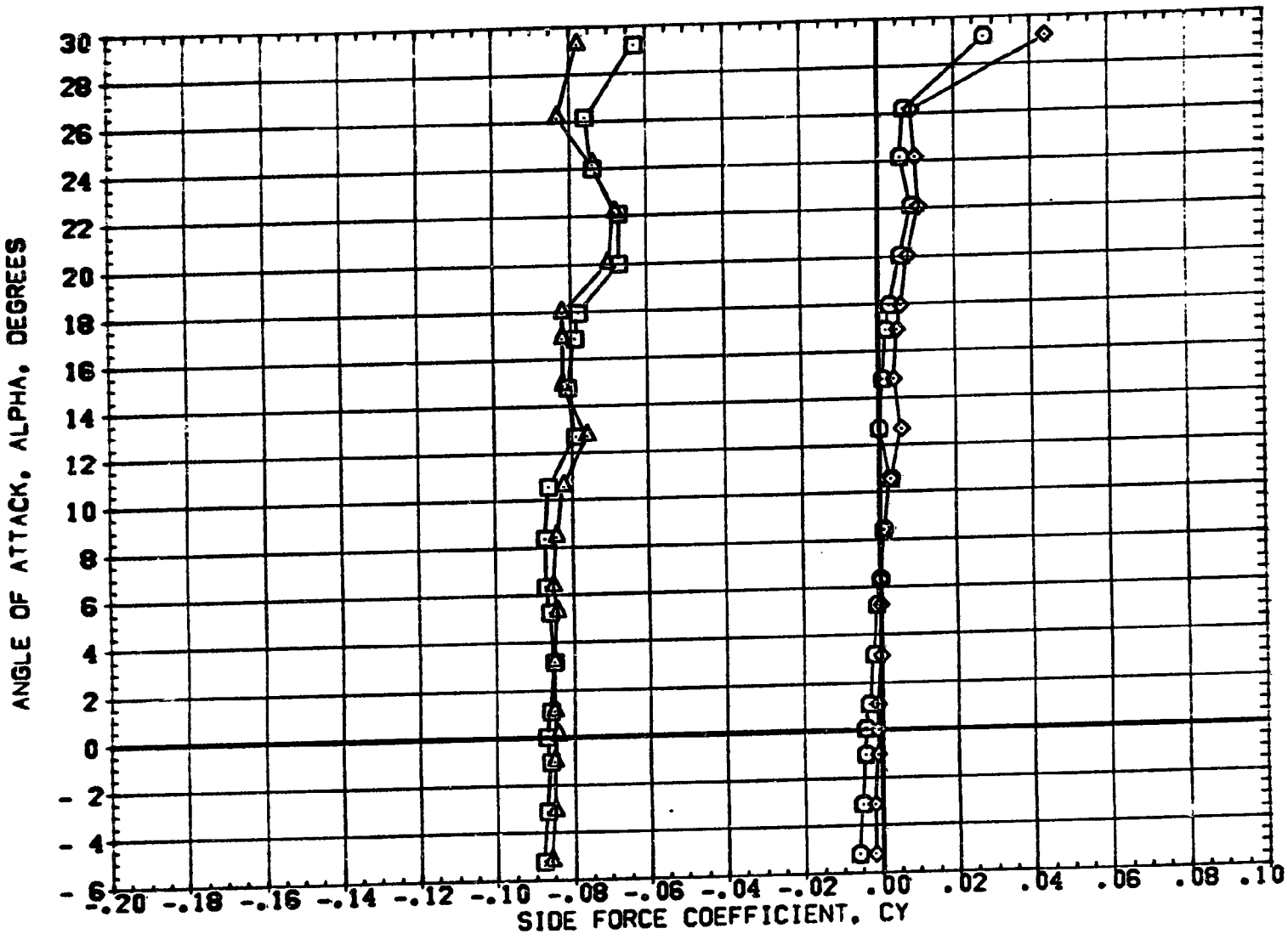


FIG. 50 EFFECT OF RUDDER FLARE

(A)MACH = 0.26

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	BETA		
(BOF084)	□	S3V-ATP ORBITER B2C2D2M1F1W2V3K2	0.000	0.000	
(BOF071)	△	S3V-ATP ORBITER B2C2D2M1F1W2V3K2	5.000	0.000	
(BOF192)	◇	S3V-ATP ORBITER B2C2D2M1F1W2V3K2	0.000	0.000	10.000
(BOF193)	○	S3V-ATP ORBITER B2C2D2M1F1W2V3K2	5.000	0.000	10.000

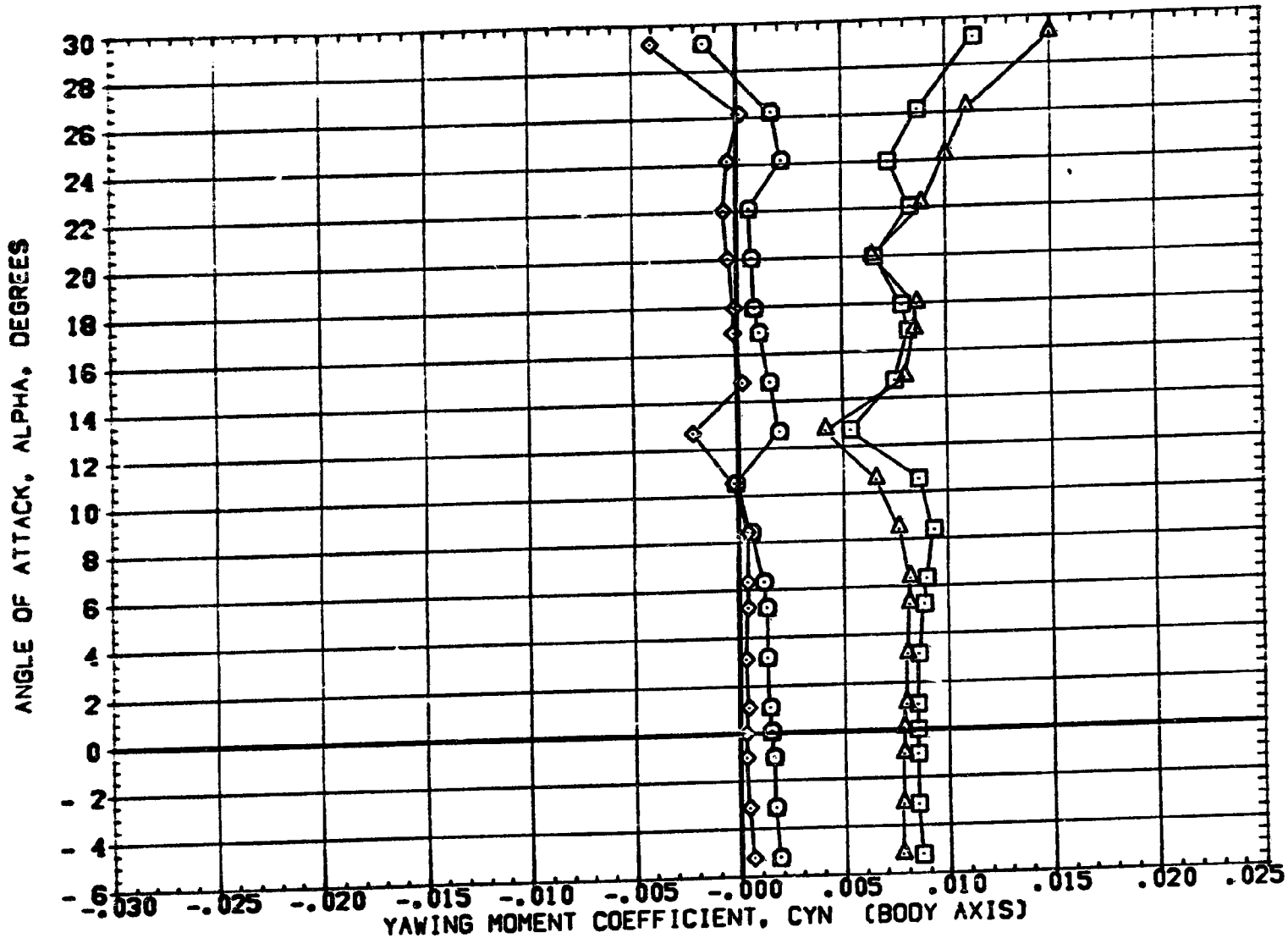


FIG. 50 EFFECT OF RUDDER FLARE

(A)MACH = 0.26

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	BETA	B2FLAP	RUDFLR
(BDF084)	○	SSV-ATP ORBITER B2C2D2M1F1W2V3K2	0.000	0.000	
(BDF0P1)	△	SSV-ATP ORBITER B2C2D2M1F1W2V3K2	5.000	0.000	
(BDF102)	◇	SSV-ATP ORBITER B2C2D2M1F1W2V3K2	0.000	0.000	10.000
(BDF103)	□	SSV-ATP ORBITER B2C2D2M1F1W2V3K2	5.000	0.000	10.000

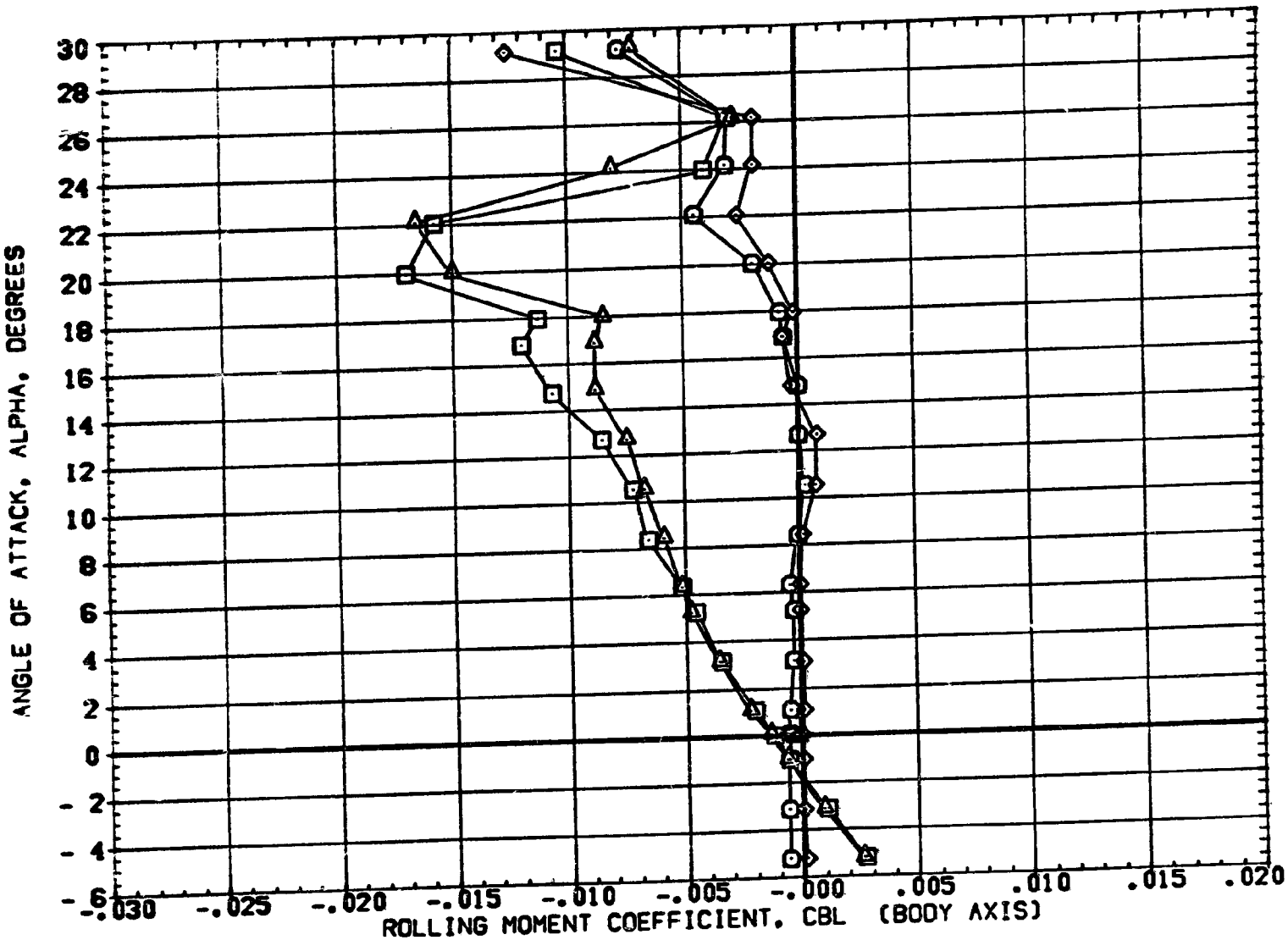


FIG. 50 EFFECT OF RUDDER FLARE

(A)MACH = 0.26

DATA SET SYMBOL	CONFIGURATION DESCRIPTION				
(BDP065)	SSV-ATP ORBITER	B2C2D2M1F1W2V3R2	0.000		0.000
(BDP130)	SSV-ATP ORBITER	B2C2D2M1F1W2V3R3R2	0.000	-10.000	0.000
(BDP137)	SSV-ATP ORBITER	B2C2D2M1F1W2V3R3R2	0.000	-20.000	0.000
(BDP039)	SSV-ATP ORBITER	B2C2D2M1F1W2	0.000		0.000

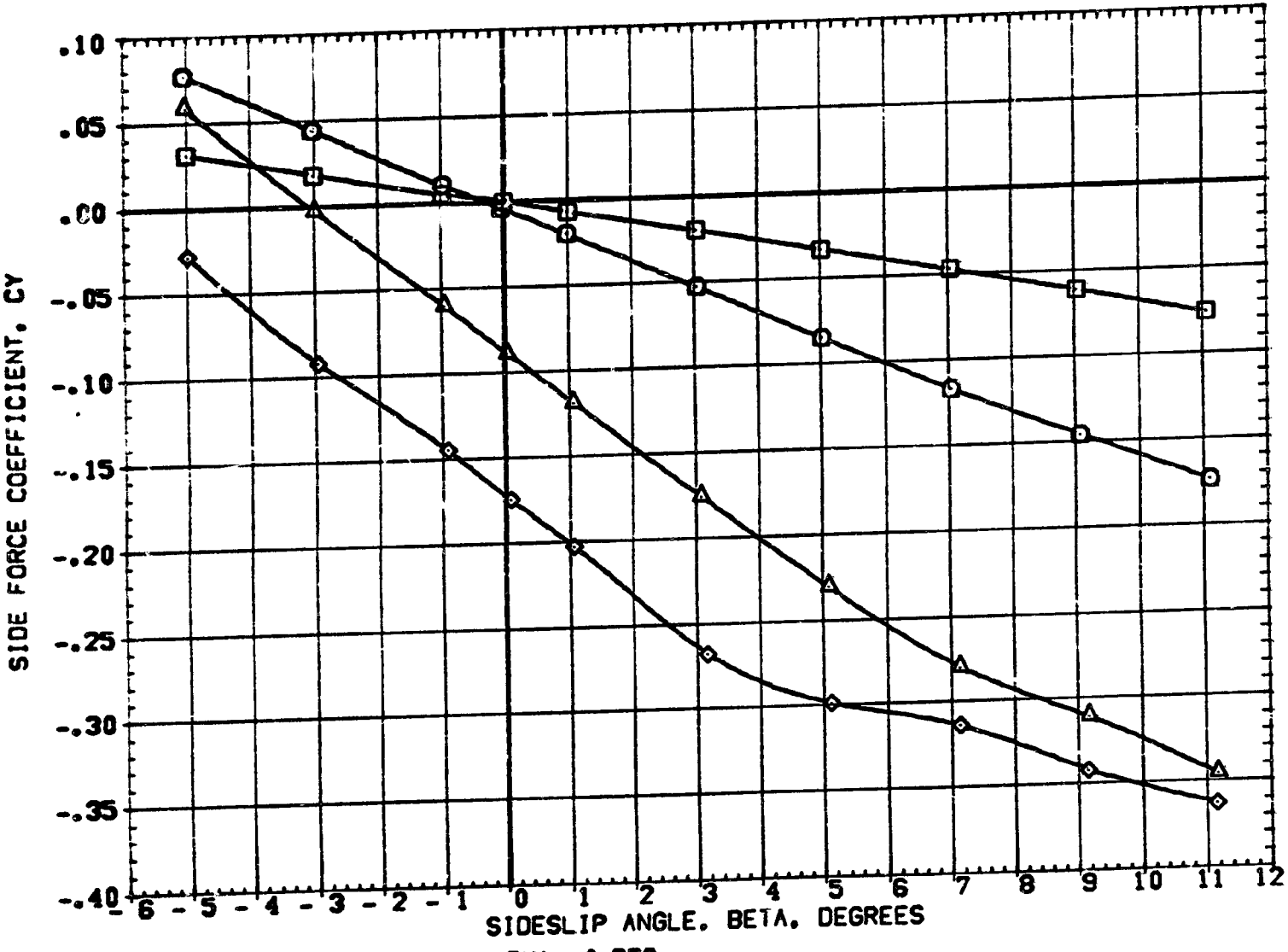


FIG. 51 SIDEWASH EFFECTS, ALPHA= 0 DEG.

(A)MACH = 0.26

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ALPHA	RUDDER	B2FLAP
(BDF065)	SSV-ATP ORBITER B2C2D2M1F1W2V3K2	0.000		0.000
(BDF130)	SSV-ATP ORBITER B2C2D2M1F1W2V3R3K2	0.000	-10.000	0.000
(BDF137)	SSV-ATP ORBITER B2C2D2M1F1W2V3R3K2	0.000	-20.000	0.000
(BDF039)	SSV-ATP ORBITER B2C2D2M1F1W2	0.000		0.000

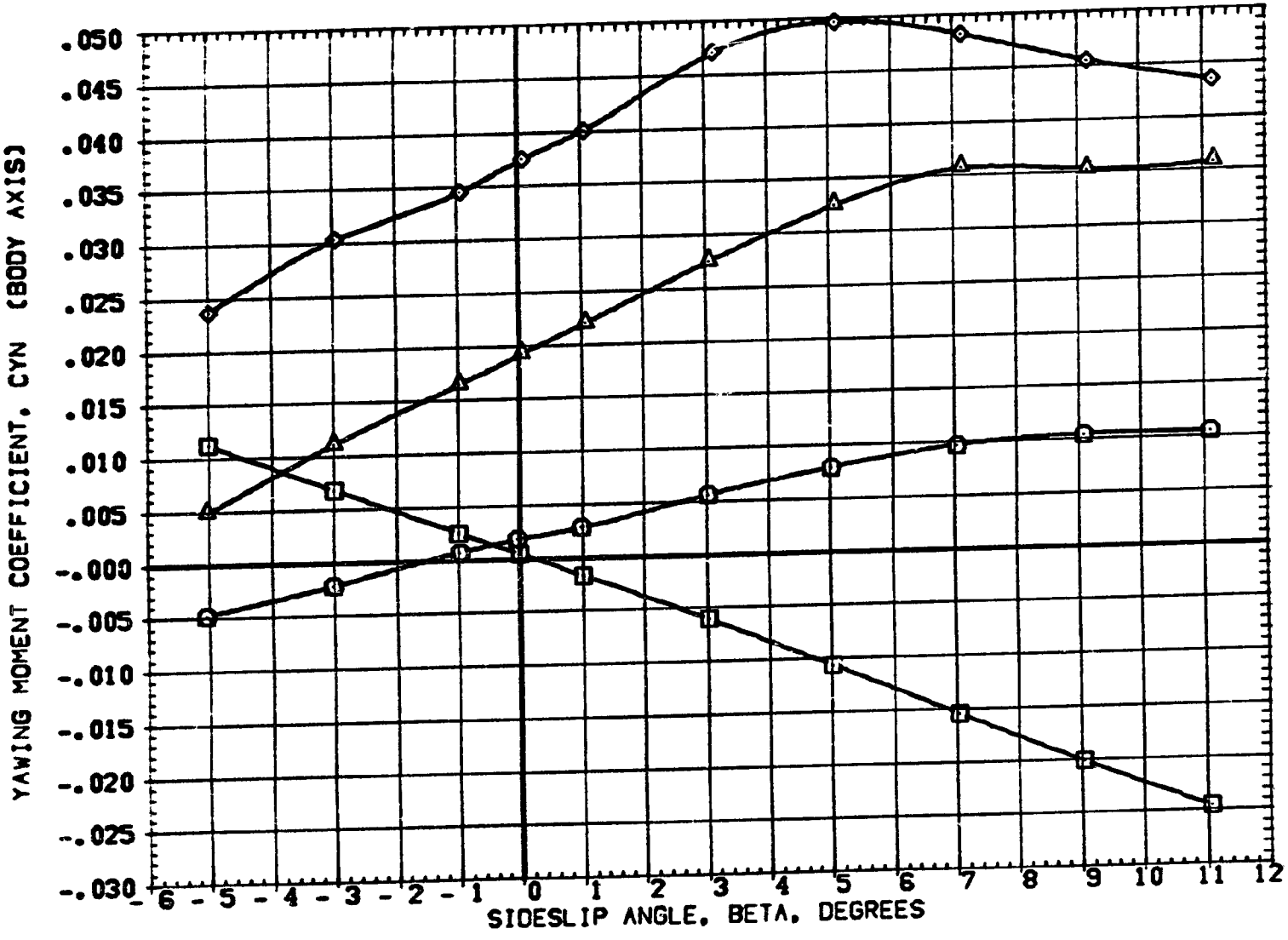


FIG. 51 SIDEWASH EFFECTS, ALPHA= 0 DEG.

(A)MACH = 0.26

DATA SET SYMBOL	CONFIGURATION DESCRIPTION		ALPHA	RUDDER	DEFLNT
(BDF065)	SSV-ATP ORBITER	B2C2D2M1F1W2V3K2	0.000		0.000
(BDF130)	SSV-ATP ORBITER	B2C2D2M1F1W2V3R3K2	0.000	-10.000	0.000
(BDF137)	SSV-ATP ORBITER	B2C2D2M1F1W2V3R3K2	0.000	-20.000	0.000
(BDF039)	SSV-ATP ORBITER	B2C2D2M1F1W2	0.000		0.000

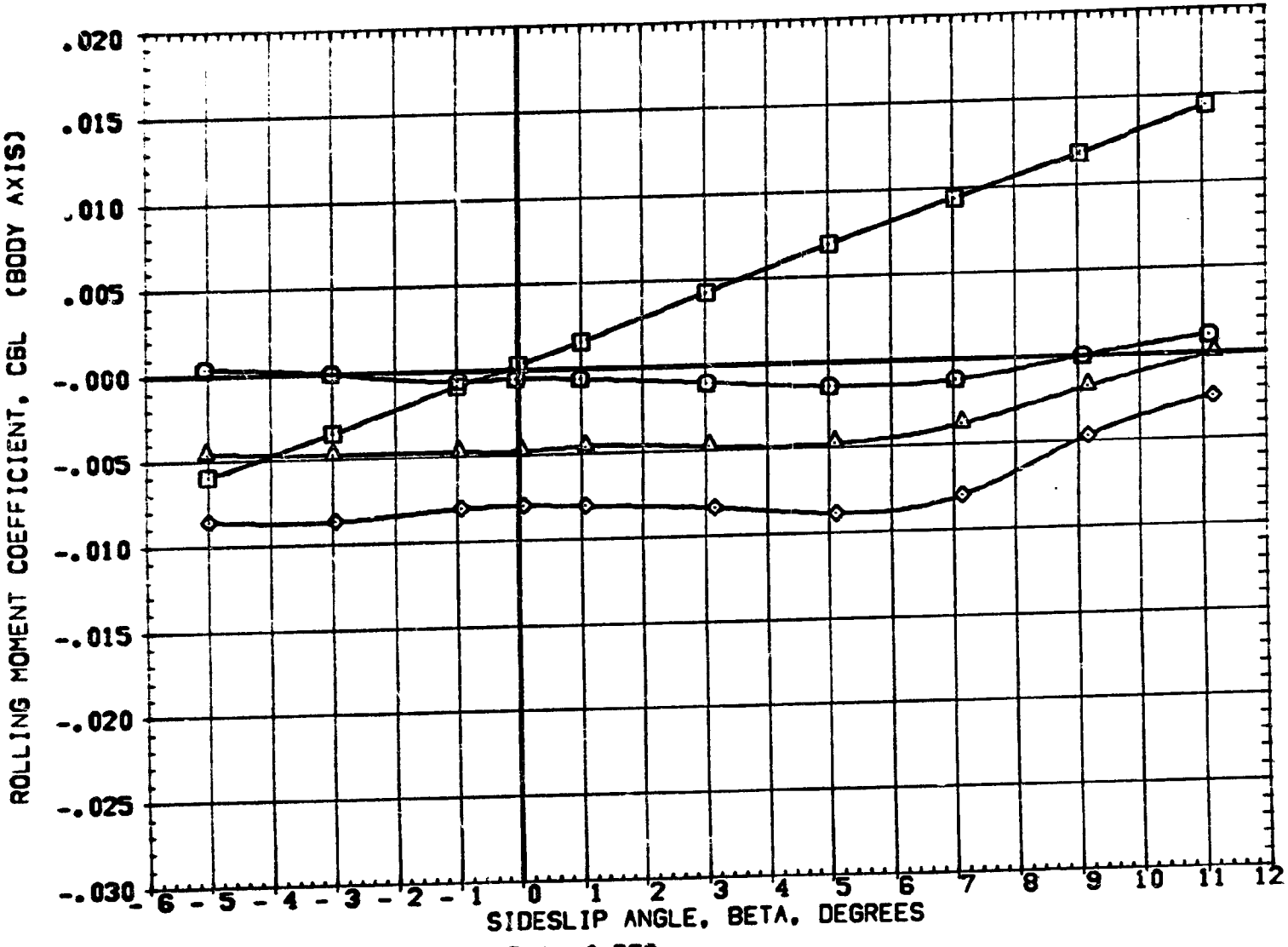


FIG. 51 SIDEWASH EFFECTS, ALPHA= 0 DEG.

(A)MACH = 0.26

DATA SET	SYMBOL	CONFIGURATION	DESCRIPTION	ALPHA	RUDDER	BEFLAP
(BDF060)		SSV-ATP	ORBITER B2C2D2M1F1W2V3R2	5.000		0.000
(BDF131)		SSV-ATP	ORBITER B2C2D2M1F1W2V3R3R2	5.000	-10.000	0.000
(BDF136)		SSV-ATP	ORBITER B2C2D2M1F1W2V3R3R2	5.000	-20.000	0.000
(BDF040)		SSV-ATP	ORBITER B2C2D2M1F1W2	5.000		0.000

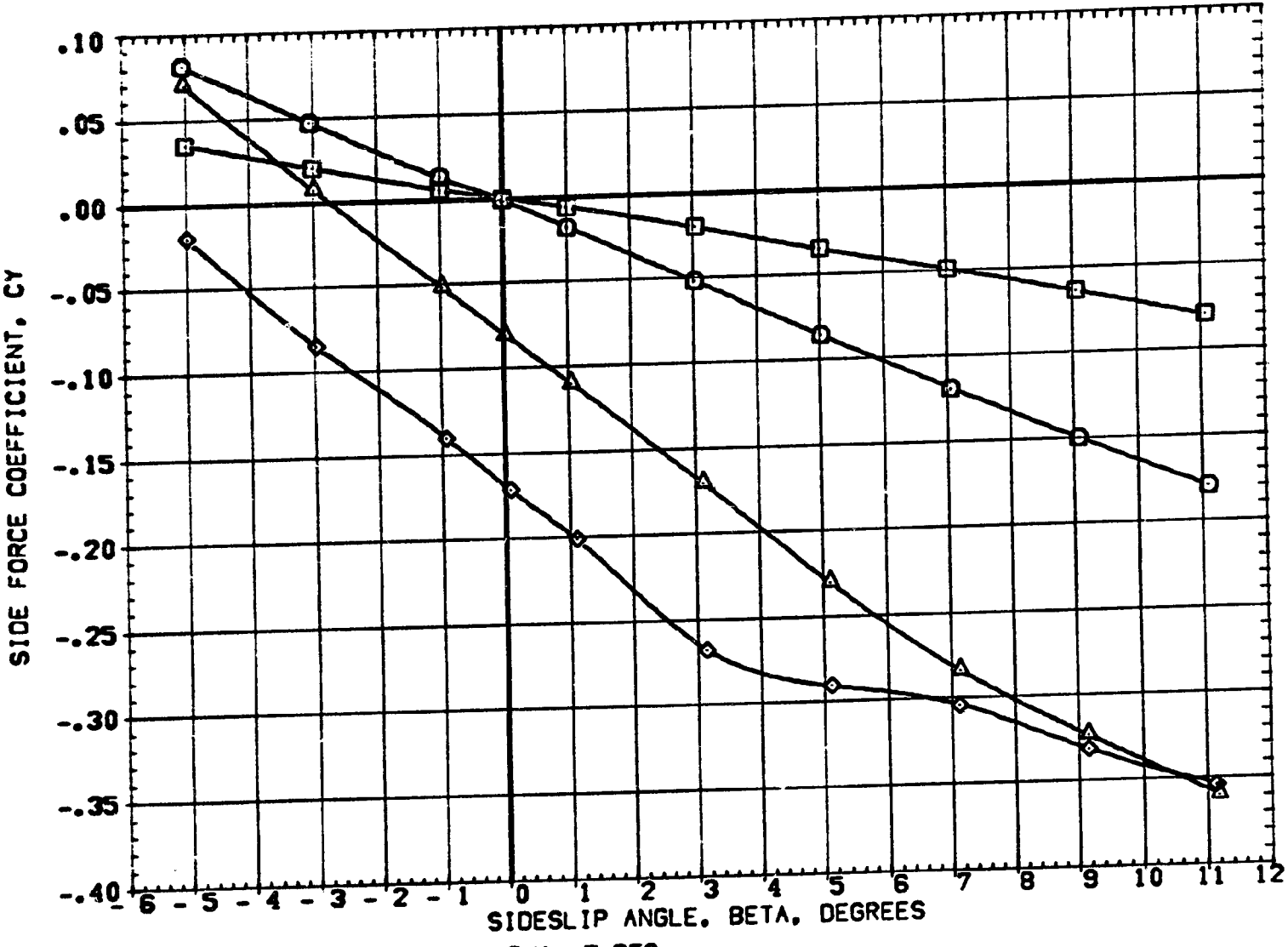


FIG. 52 SIDEWASH EFFECTS, ALPHA= 5 DEG.

(A)MACH = 0.26

DATA SET	SYMBOL	CONFIGURATION	DESCRIPTION	ALPHA	RUDDEN	BODY FLAP
(BDF068)	○	SSV-ATP	ORBITER B2C2D2M1F1W2V3R2	5.000		0.000
(BDF131)	△	SSV-ATP	ORBITER B2C2D2M1F1W2V3R3R2	5.000	-10.000	0.000
(BDF130)	◇	SSV-ATP	ORBITER B2C2D2M1F1W2V3R3R2	5.000	-20.000	0.000
(BDF049)	□	SSV-ATP	ORBITER B2C2D2M1F1W2	5.000		0.000

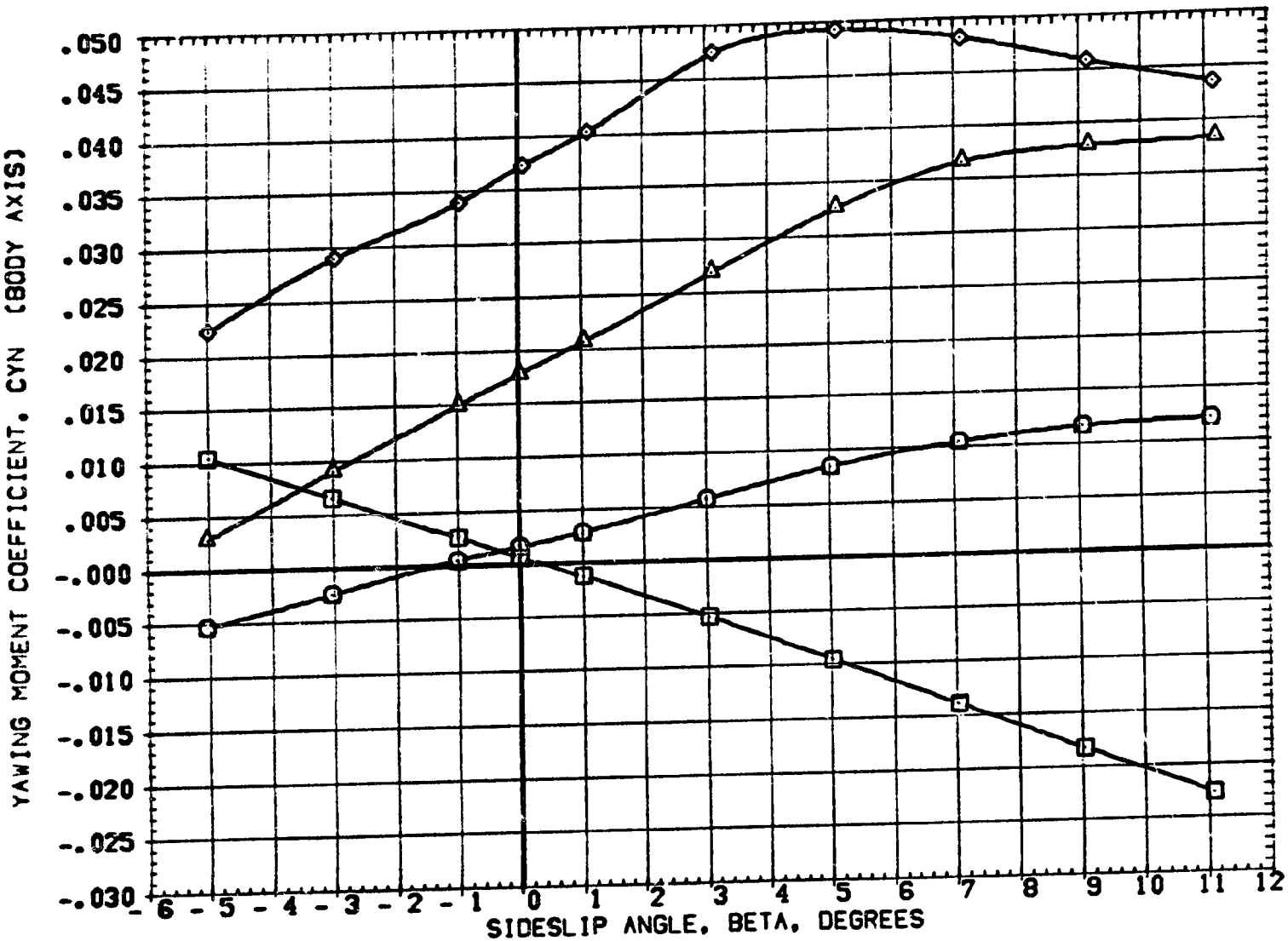


FIG. 52 SIDEWASH EFFECTS, ALPHA= 5 DEG.

(A)MACH = 0.26

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ALPHA	RUDDER	B2FLAP
	35V-ATP ORBITER B2C2D2M1F1W2V3R2	5.000		0.000
	35V-ATP ORBITER B2C2D2M1F1W2V3D3R2	5.000	-10.000	0.000
	35V-ATP ORBITER B2C2D2M1F1W2V3D3R2	5.000	-20.000	0.000
	35V-ATP ORBITER B2C2D2M1F1W2	5.000		0.000

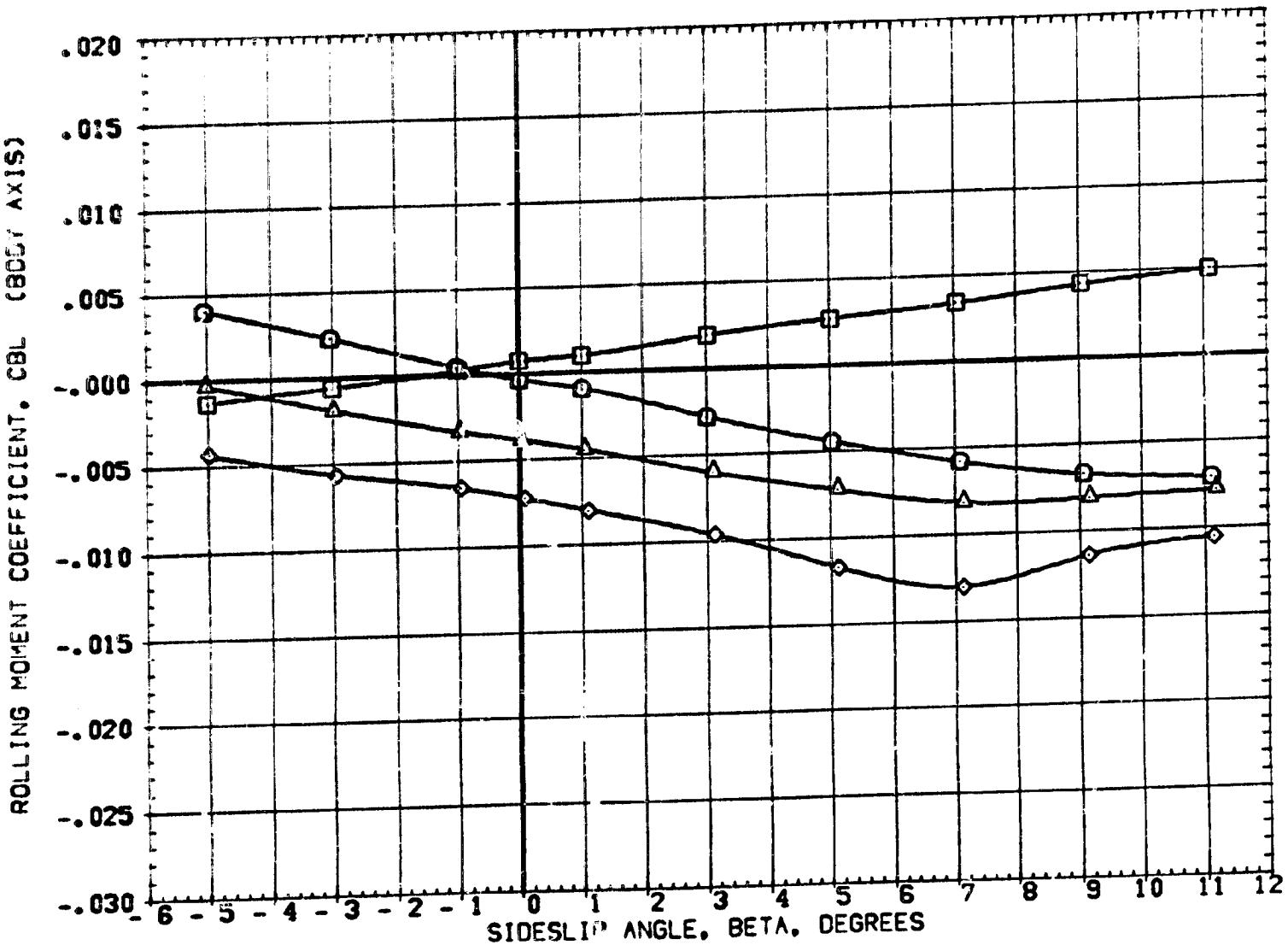


FIG. 52 SIDEWASH EFFECTS, ALPHA= 5 DEG.

(A)MACH = 0.26

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	ALPHA	RUDDER	SBFLAP
(80P069)	○	SSV-ATP ORBITER B2C2D2M1F1W2V3R2	10.000		0.000
(80P132)	△	SSV-ATP ORBITER B2C2D2M1F1W2V3R3R2	10.000	-10.000	0.000
(80P139)	◇	SSV-ATP ORBITER B2C2D2M1F1W2V3R3R2	10.000	-20.000	0.000
(80P041)	□	SSV-ATP ORBITER B2C2D2M1F1W2	10.000		0.000

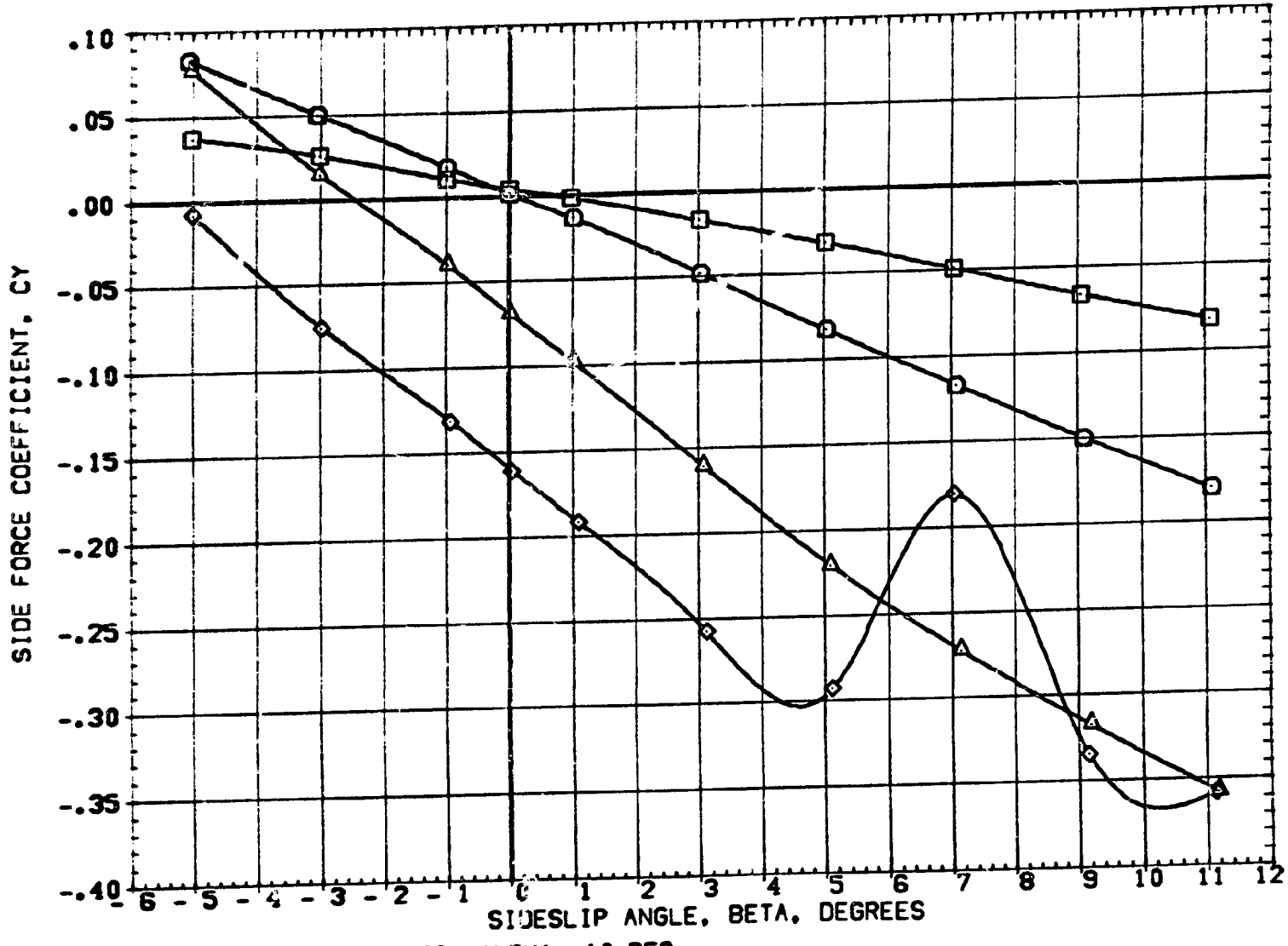


FIG. 53 SIDEWASH EFFECTS, ALPHA= 10 DEG.

(A)MACH = 0.26

DATA SET SYMBOL	CONFIGURATION DESCRIPTION		ALPHA	RUDDER	B2FLAP
(80F087)	SSV-ATP ORBITER	B2C2D2M1F1W2V3K2	10.000		0.000
(80F132)	SSV-ATP ORBITER	B2C2D2M1F1W2V3R3K2	10.000	-10.000	0.000
(80F139)	SSV-ATP ORBITER	B2C2D2M1F1W2V3R3K2	10.000	-20.000	0.000
(80F041)	SSV-ATP ORBITER	B2C2D2M1F1W2	10.000		0.000

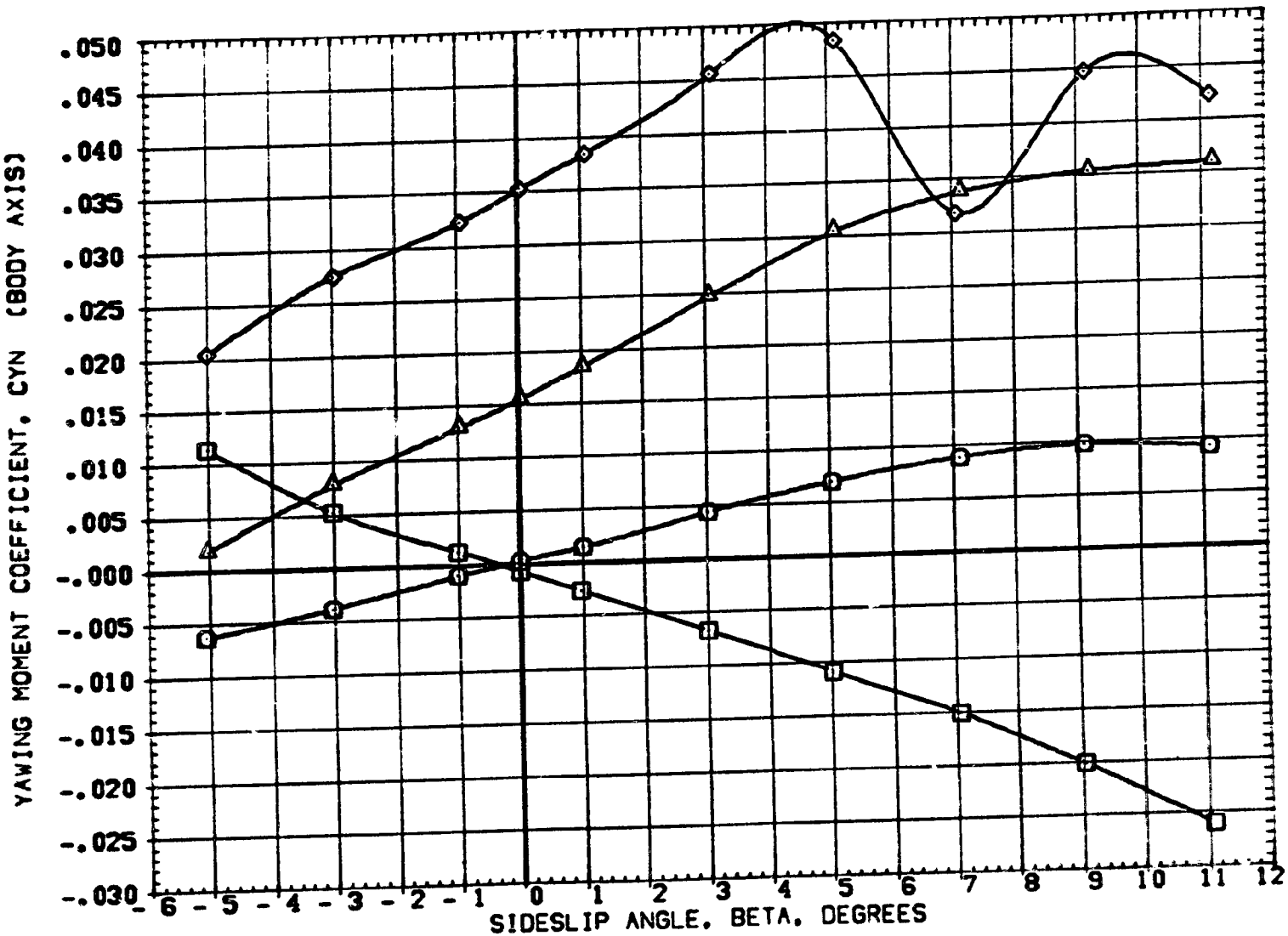


FIG. 53 SIDEWASH EFFECTS, ALPHA= 10 DEG.

(A)MACH = 0.26

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	ALPHA	RUDDER	ELEVON
(EDF067)	○	SSV-ATP ORBITER B2C2D2H1F1W2V3R2	10.000		0.000
(EDF132)	△	SSV-ATP ORBITER B2C2D2H1F1W2V3R3K2	10.000	-10.000	0.000
(EDF139)	◇	SSV-ATP ORBITER B2C2D2H1F1W2V3R3K2	10.000	-20.000	0.000
(EDF041)	□	SSV-ATP ORBITER B2C2D2H1F1W2	10.000		0.000

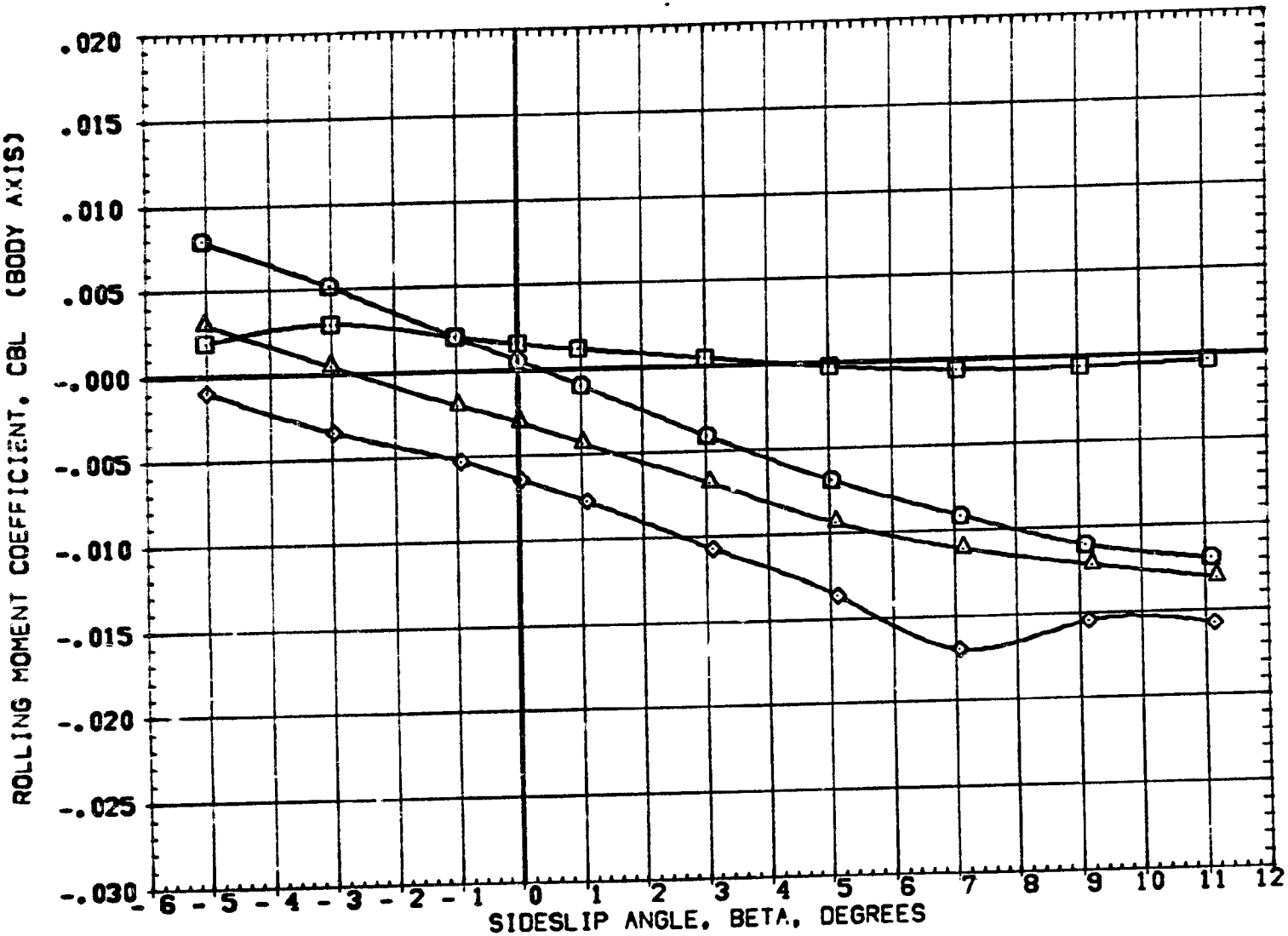


FIG. 53 SIDEWASH EFFECTS, ALPHA= 10 DEG.

(A)MACH = 0.26

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	ALPHA	RUDDER	BEFLAP
(BDF084)	○	SSV-ATP ORBITER B2C2D2M1F1W2V3R2	15.000		0.000
(BDF133)	△	SSV-ATP ORBITER B2C2D2M1F1W2V3R3R2	15.000	-10.000	0.000
(BDF140)	◇	SSV-ATP ORBITER B2C2D2M1F1W2V3R3R2	15.000	-20.000	0.000
(BDF042)	□	SSV-ATP ORBITER B2C2D2M1F1W2	15.000		0.000

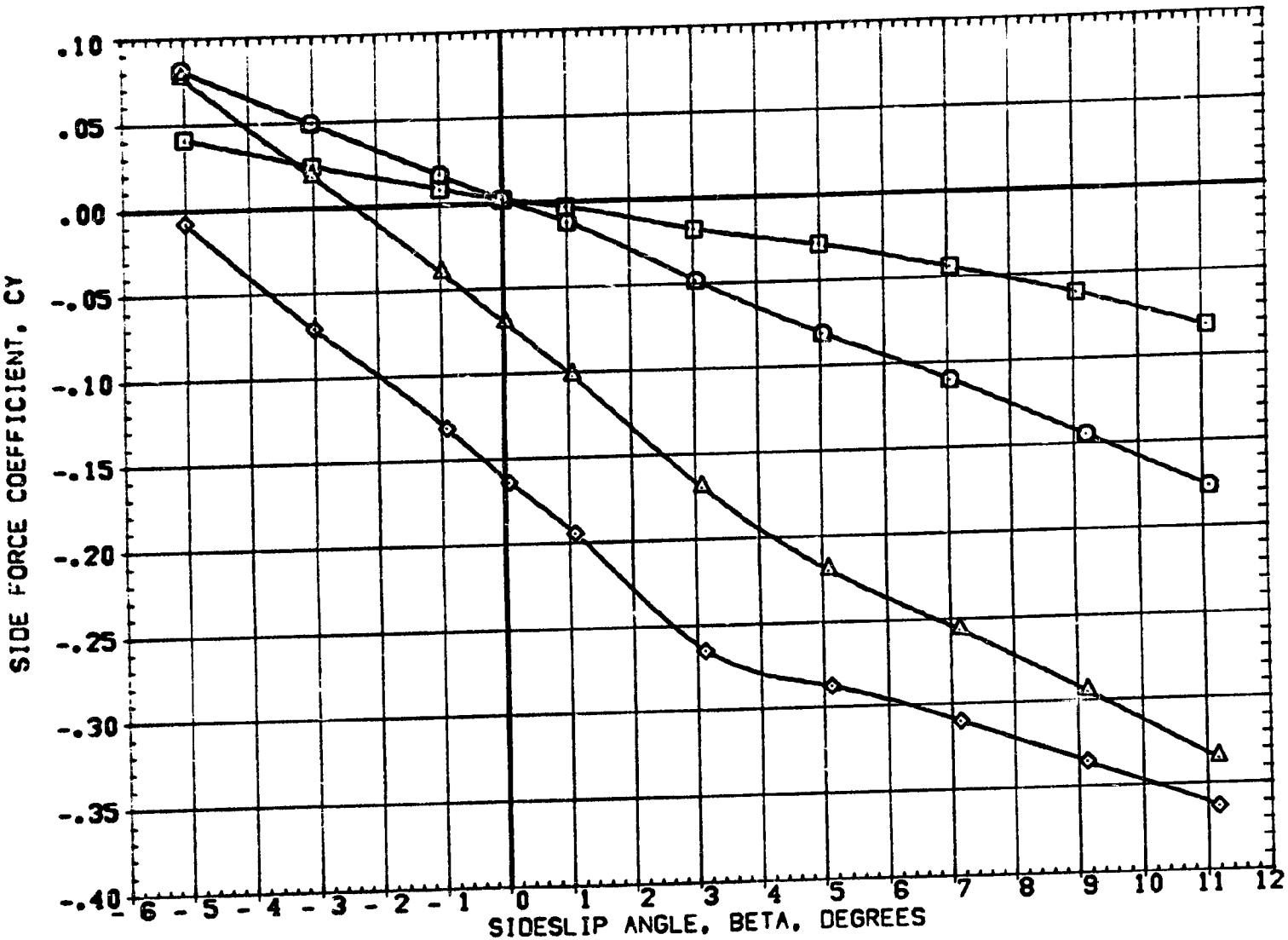


FIG. 54 SIDEWASH EFFECTS, ALPHA= 15 DEG.

(A)MACH = 0.26

DATA SET	SYMBOL	CONFIGURATION	DESCRIPTION
(80F069)	◇	3SV-ATP	ORBITER 82C2D2M1F1W2V3R2
(80F139)	△	3SV-ATP	ORBITER 82C2D2M1F1W2V3R3R2
(80F140)	◇△□	3SV-ATP	ORBITER 82C2D2M1F1W2V3R3R2
(80F042)	□	3SV-ATP	ORBITER 82C2D2M1F1W2

ALPHA	RUDDER	B2FLAP
15.000		0.000
15.000	-10.000	0.000
15.000	-20.000	0.000
15.000		0.000

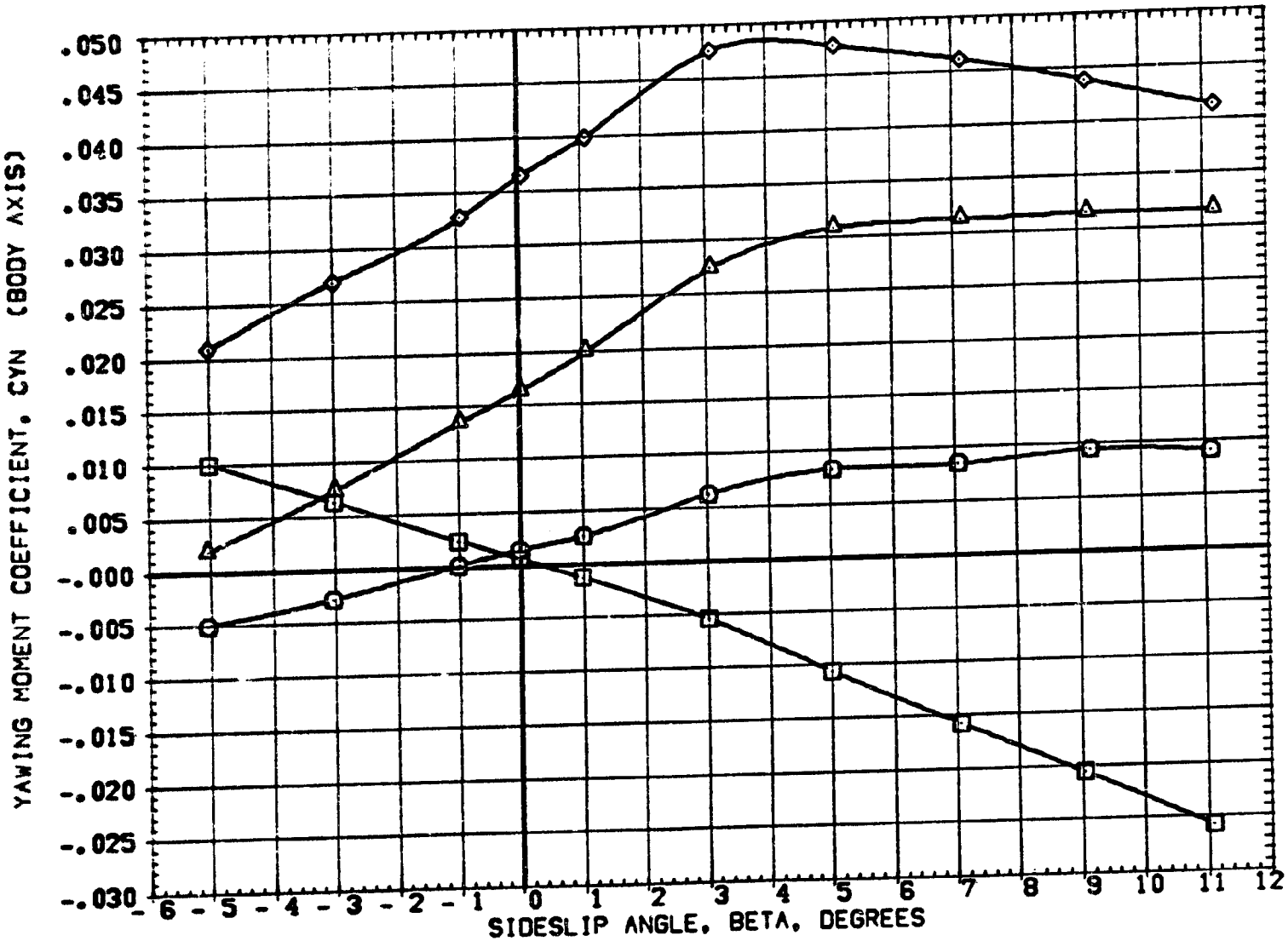


FIG. 54 SIDEWASH EFFECTS, ALPHA= 15 DEG.

(A)MACH = 0.26

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(BDF069)	○	SSV-ATP ORBITER B2C2D2M1F1W2V3R2
(BDF135)	△	SSV-ATP ORBITER B2C2D2M1F1W2V3R3R2
(BDF140)	◇	SSV-ATP ORBITER B2C2D2M1F1W2V3R3R2
(BDF042)	□	SSV-ATP ORBITER B2C2D2M1F1W2

ALPHA	RUDDER	BEFLAP
15.000		0.000
15.000	-10.000	0.000
15.000	-20.000	0.000
15.000		0.000

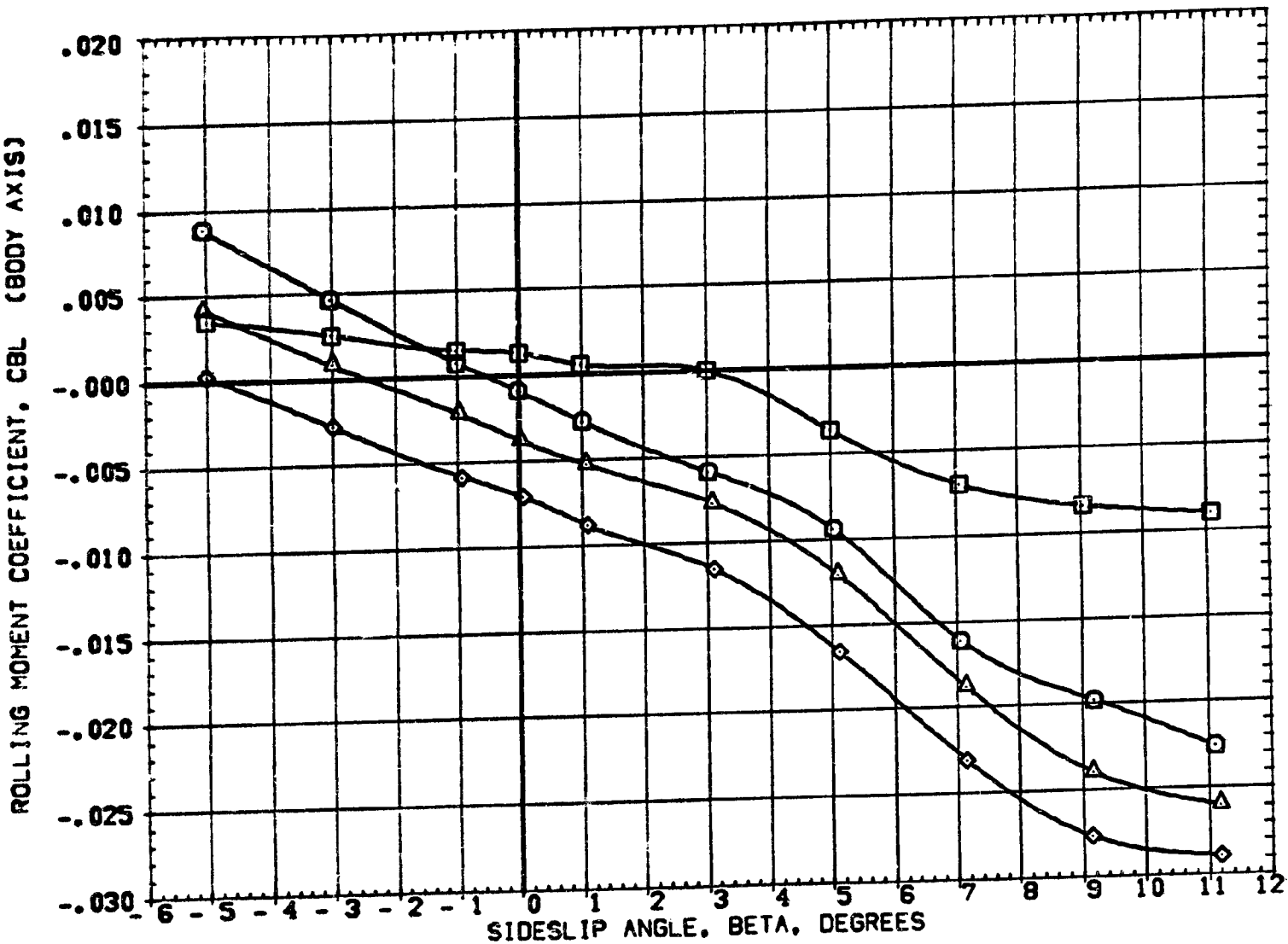


FIG. 54 SIDEWASH EFFECTS, ALPHA= 15 DEG.

(A)MACH = 0.26

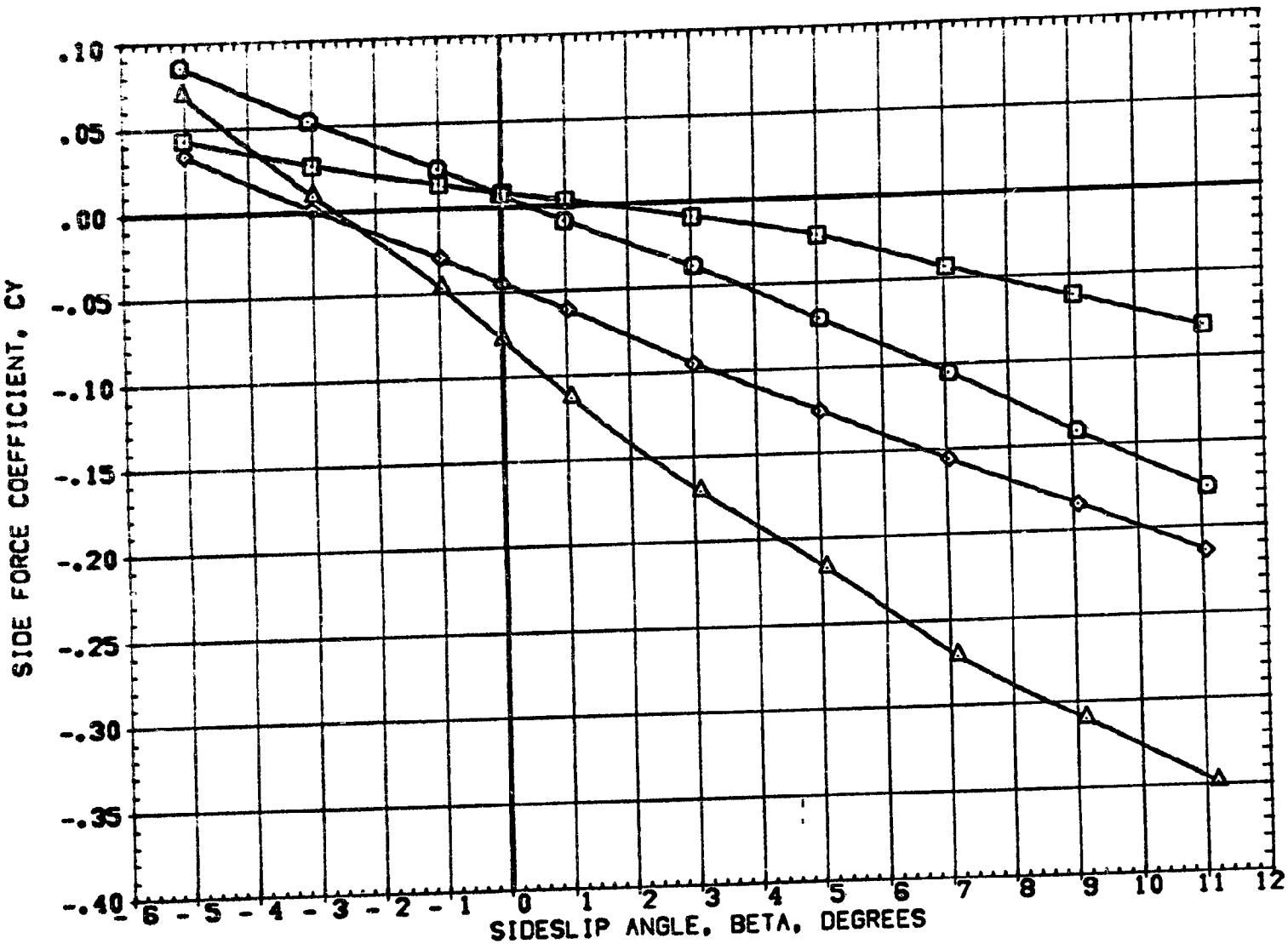


FIG. 55 SIDEWASH EFFECTS, ALPHA= 18 DEG.

(A)MACH = 0.26

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	ALPHA	RUDDER	B2FLAP
(BDF069)	○	SSV-ATP ORBITER B2C2D2M1F1W2V3R2	18.000		0.000
(BDF134)	△	SSV-ATP ORBITER B2C2D2M1F1W2V3R3R2	18.000	-10.000	0.000
(BDF143)	◇	SSV-ATP ORBITER B2C2D2M1F1W2V3R3R2	18.000	-20.000	0.000
(BDF043)	□	SSV-ATP ORBITER B2C2D2M1F1W2	18.000		0.000

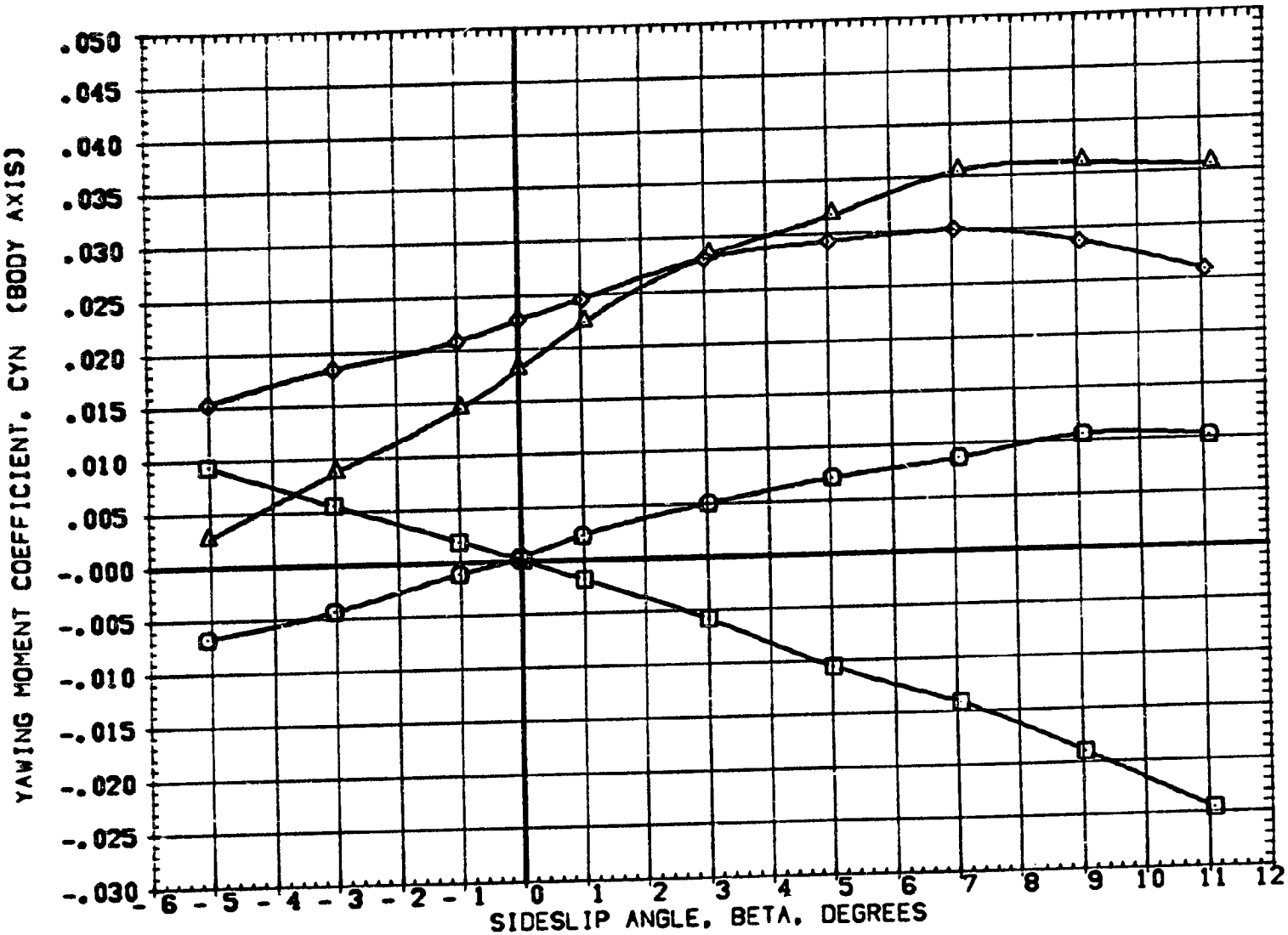


FIG. 55 SIDEWASH EFFECTS, ALPHA= 18 DEG.

(A)MACH = 0.26

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(EDF069)	○	SSV-ATP ORBITER B2C2D2M1F1W2V3R2
(EDF134)	△	SSV-ATP ORBITER B2C2D2M1F1W2V3R3R2
(EDF143)	◇	SSV-ATP ORBITER B2C2D2M1F1W2V3R3R2
(EDF043)	□	SSV-ATP ORBITER B2C2D2M1F1W2

ALPHA	RUDDER	BEFLAP
18.000		0.000
18.000	-10.000	0.000
18.000	-20.000	0.000
18.000		0.000

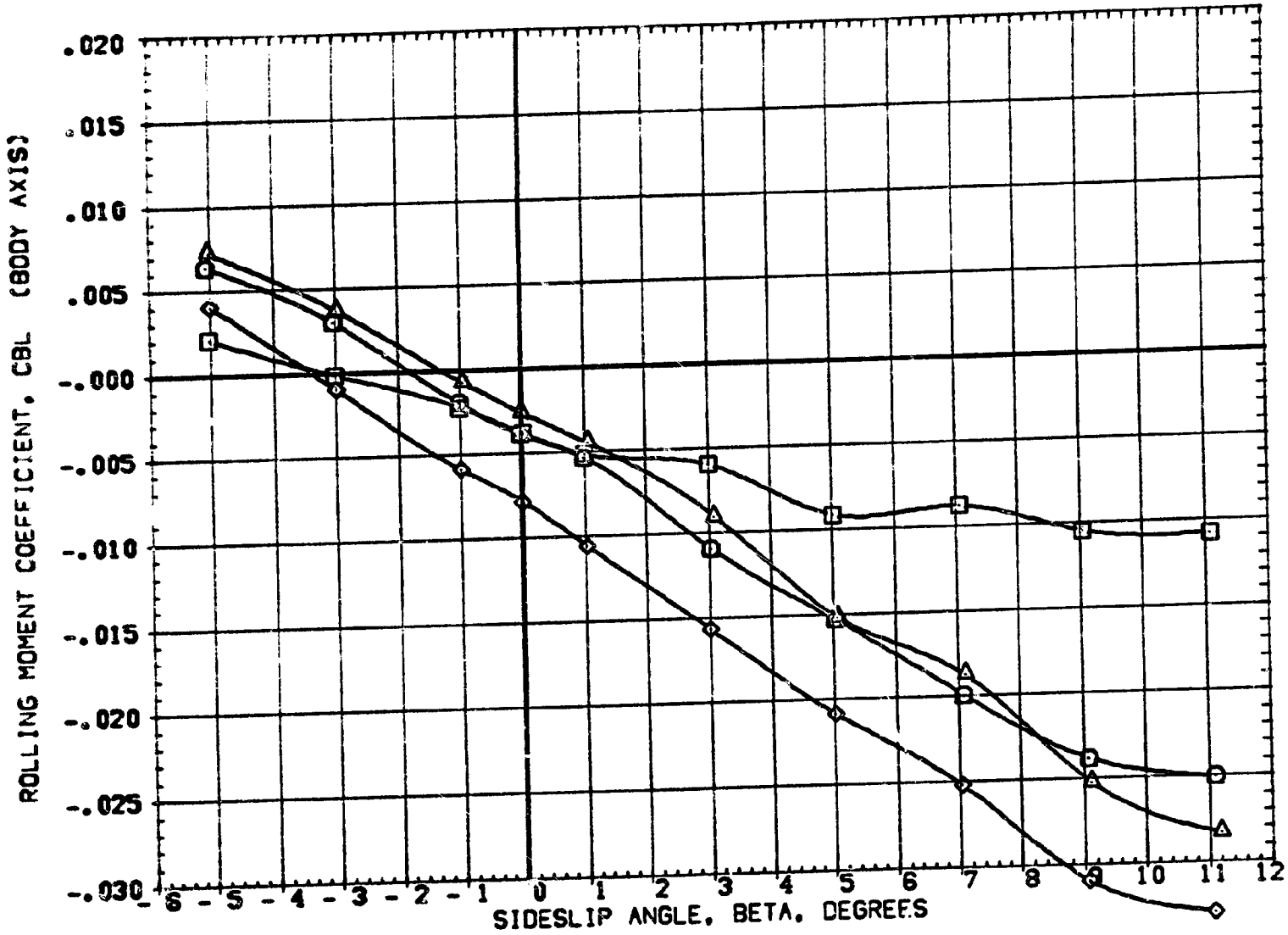


FIG. 55 SIDEWASH EFFECTS, ALPHA= 18 DEG.

(A)MACH = 0.26

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ALPHA	RUDDER	B2FLAP
(BDF070)	SSV-ATP ORBITER B2C2D2M1F1W2V3K2	20.000		0.000
(BDF139)	SSV-ATP ORBITER B2C2D2M1F1W2V3R3K2	20.000	-10.000	0.000
(BDF144)	SSV-ATP ORBITER B2C2D2M1F1W2V3R3K2	20.000	-20.000	0.000
(BDF044)	SSV-ATP ORBITER B2C2D2M1F1W2	20.000		0.000

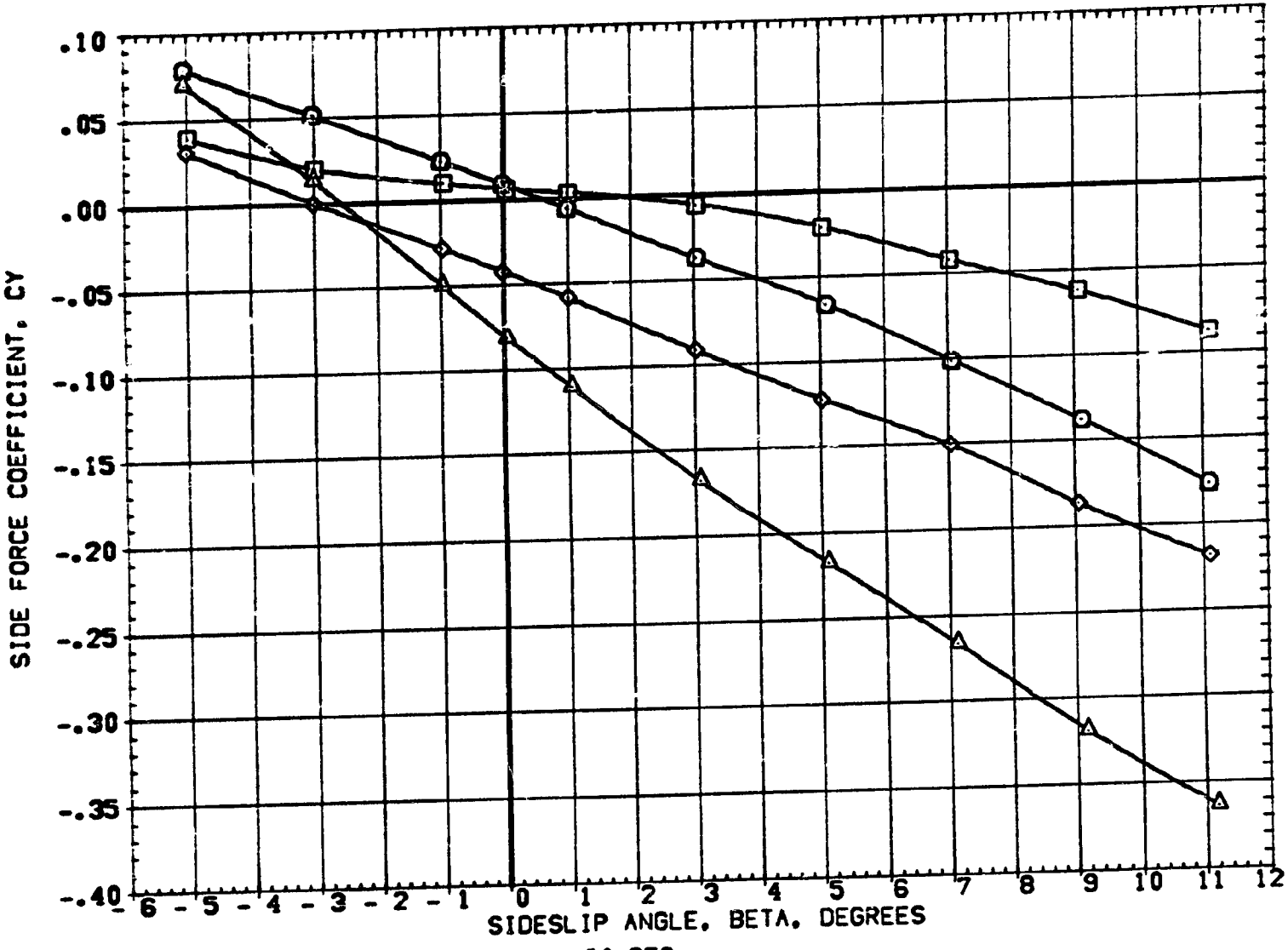


FIG. 56 SIDEWASH EFFECTS, ALPHA= 20 DEG.

(A)MACH = 0.26

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ALPHA	RUDDER	BEFLAP
(80F070)	55V-ATP ORBITER B2C2D2M1F1W2V3R2	20.000		0.000
(80F139)	55V-ATP ORBITER B2C2D2M1F1W2V3R3K2	20.000	-10.000	0.000
(80F144)	55V-ATP ORBITER B2C2D2M1F1W2V3R3K2	20.000	-20.000	0.000
(80F044)	55V-ATP ORBITER B2C2D2M1F1W2	20.000		0.000

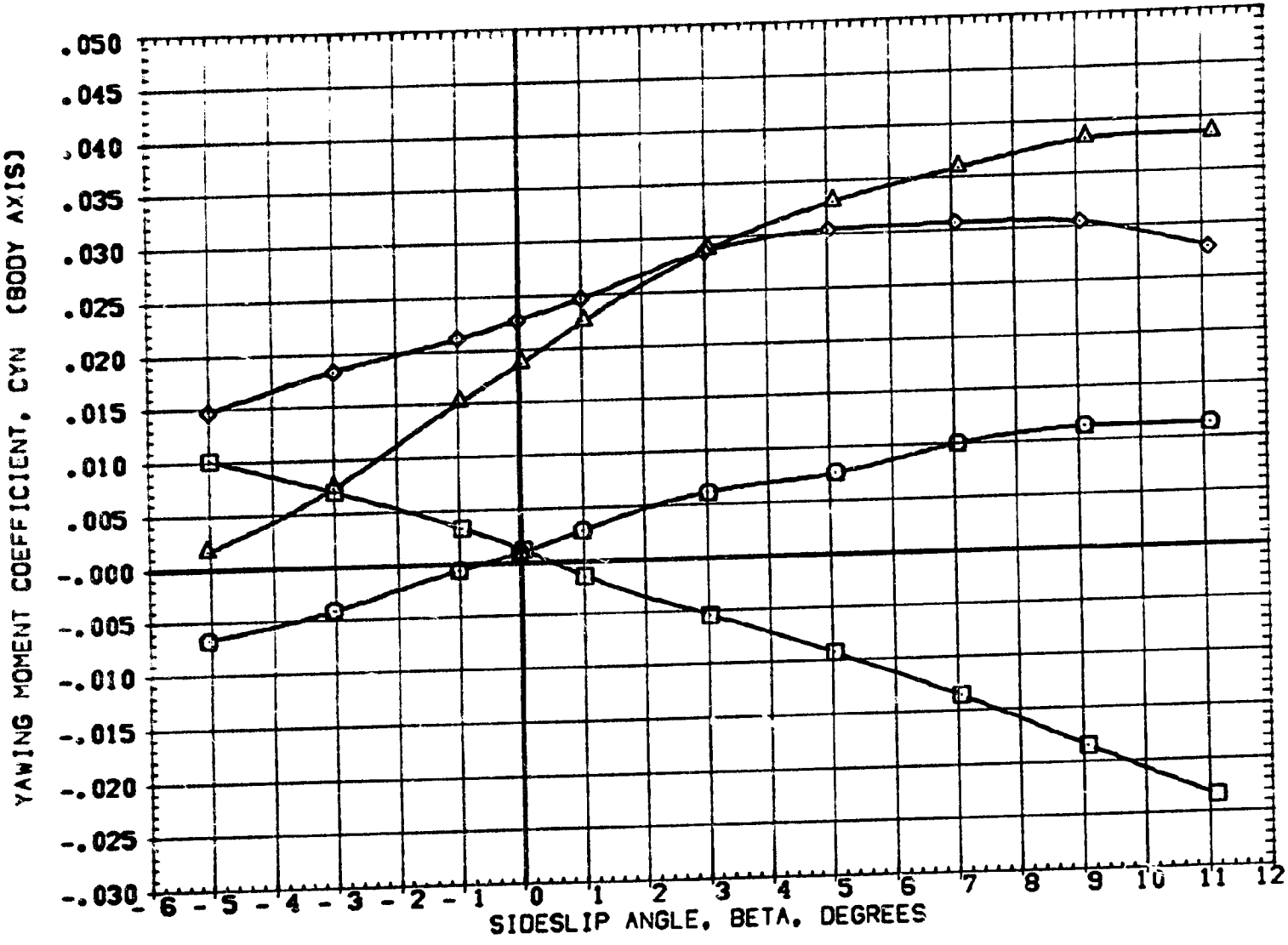


FIG. 56 SIDEWASH EFFECTS, ALPHA= 20 DEG.

(A)MACH = 0.26

DATA SET SYMBOL	CONFIGURATION DESCRIPTION
(80P370)	SSV-ATP ORBITER B2C2D2M1F1W2V3R2
(80P139)	SSV-ATP ORBITER B2C2D2M1F1W2V3R3R2
(80P144)	SSV-ATP ORBITER B2C2D2M1F1W2V3R3R2
(80P344)	SSV-ATP ORBITER B2C2D2M1F1W2

ALPHA	RUDDER	B2FLAP
20.000		0.000
20.000	-10.000	0.000
20.000	-20.000	0.000
20.000		0.000

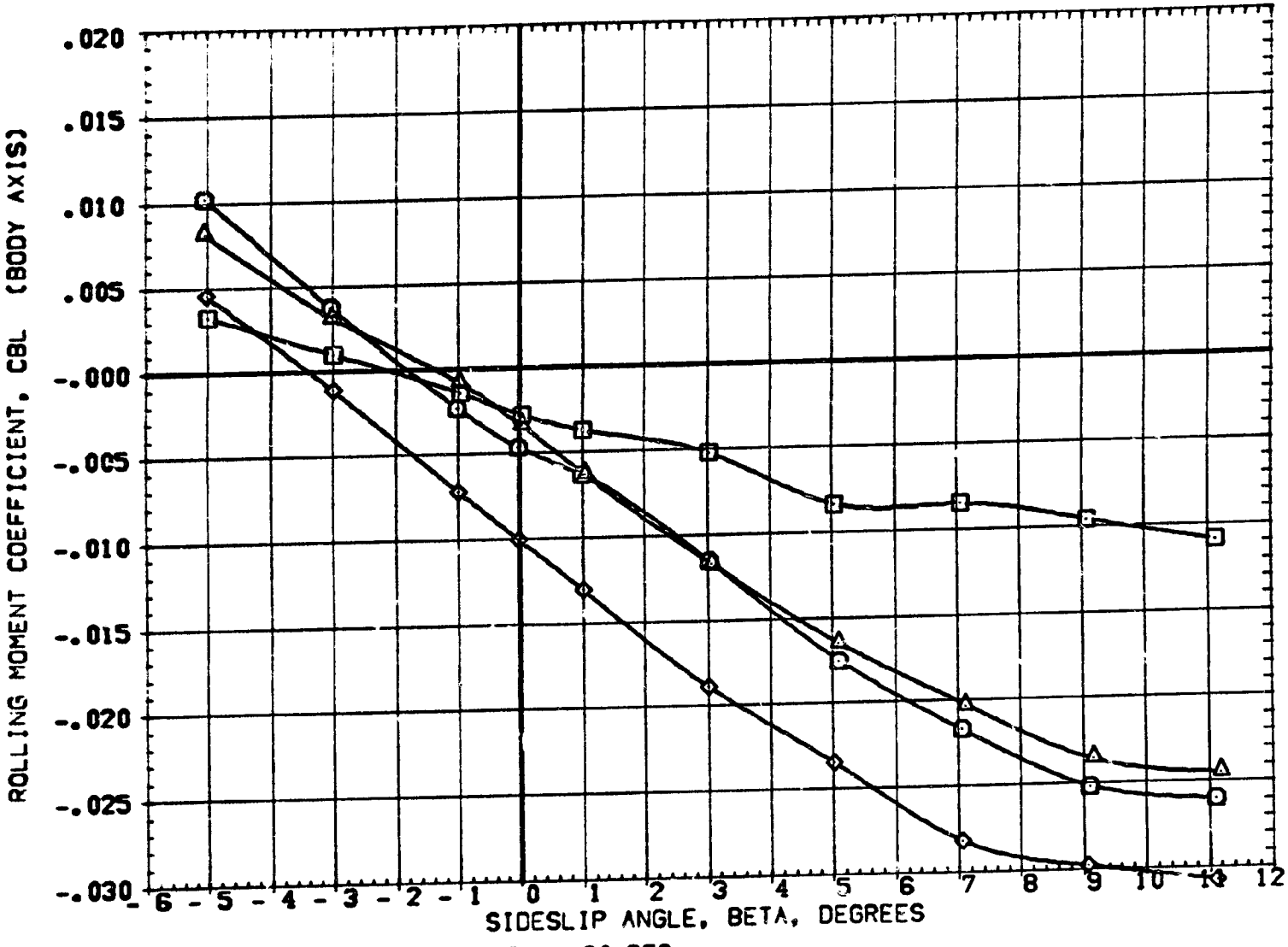


FIG. 56 SIDEWASH EFFECTS, ALPHA= 20 DEG.

(A)MACH = 0.26

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	ALPHA	RUDDER	SBFLAP
(BDF149)	○	SSV-ATP ORBITER B2C2D2M1F1V3R2	0.000		0.000
(BDF139)	△	SSV-ATP ORBITER B2C2D2M1F1V3R3R2	0.000	-10.000	0.000
(BDF132)	◇	SSV-ATP ORBITER B2C2D2M1F1V3R3R2	0.000	-20.000	0.000
(BDF030)	□	SSV-ATP ORBITER B2C2D2M1F1	0.000		0.000

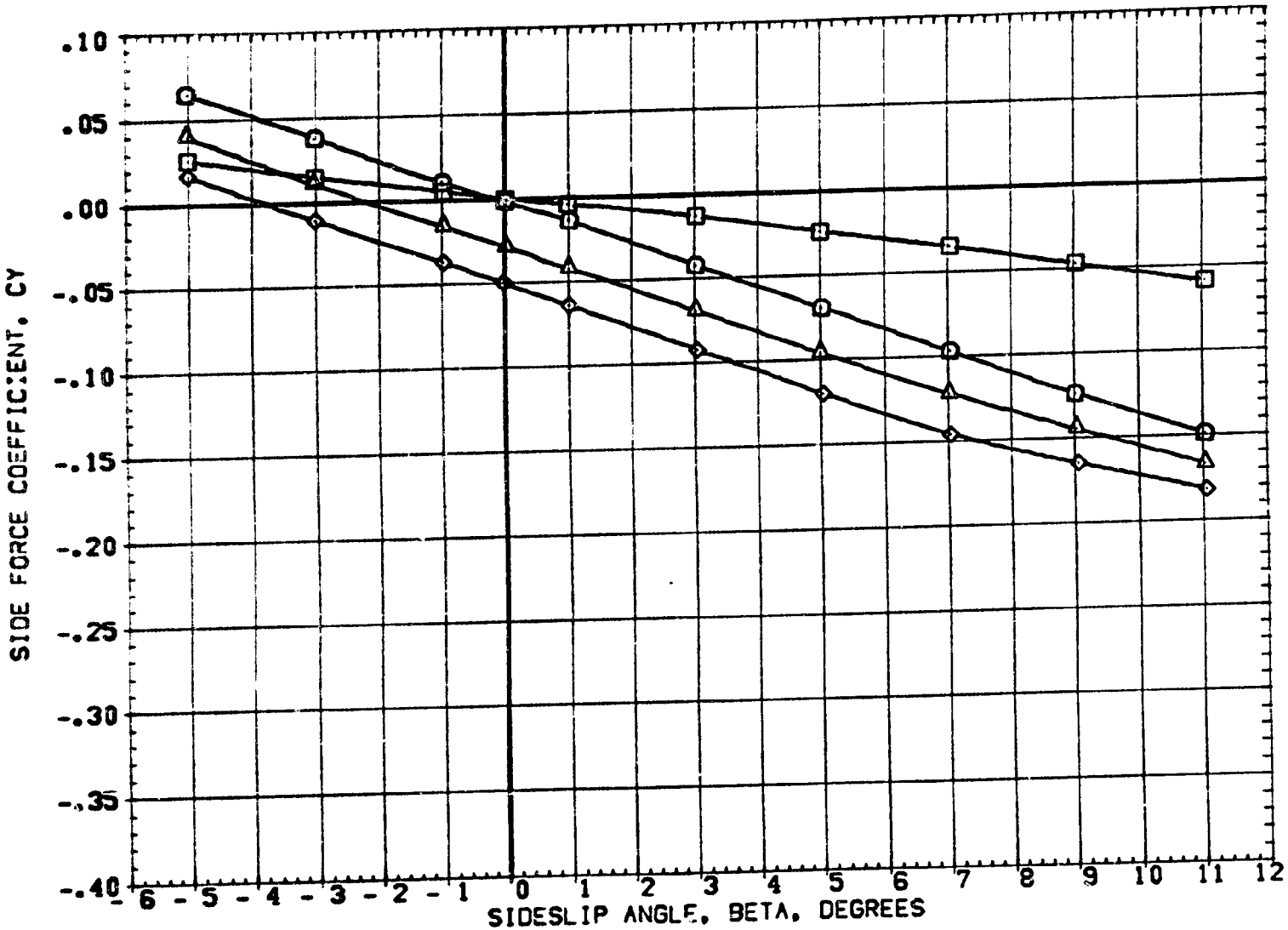


FIG. 57 SIDEWASH EFFECTS, WING OFF, ALPHA= 0 DEG.

(A)MACH = 0.28

REPRODUCIBILITY OF THE ORIGINAL PAGE IS POOR.

DATA SET	CONFIGURATION DESCRIPTION
[illegible]	[illegible]
[illegible]	[illegible]
[illegible]	[illegible]
[illegible]	[illegible]

ALPHA	RUDDER	AILERON
0.000		0.000
0.000	-10.000	0.000
0.000	-20.000	0.000
0.000		0.000

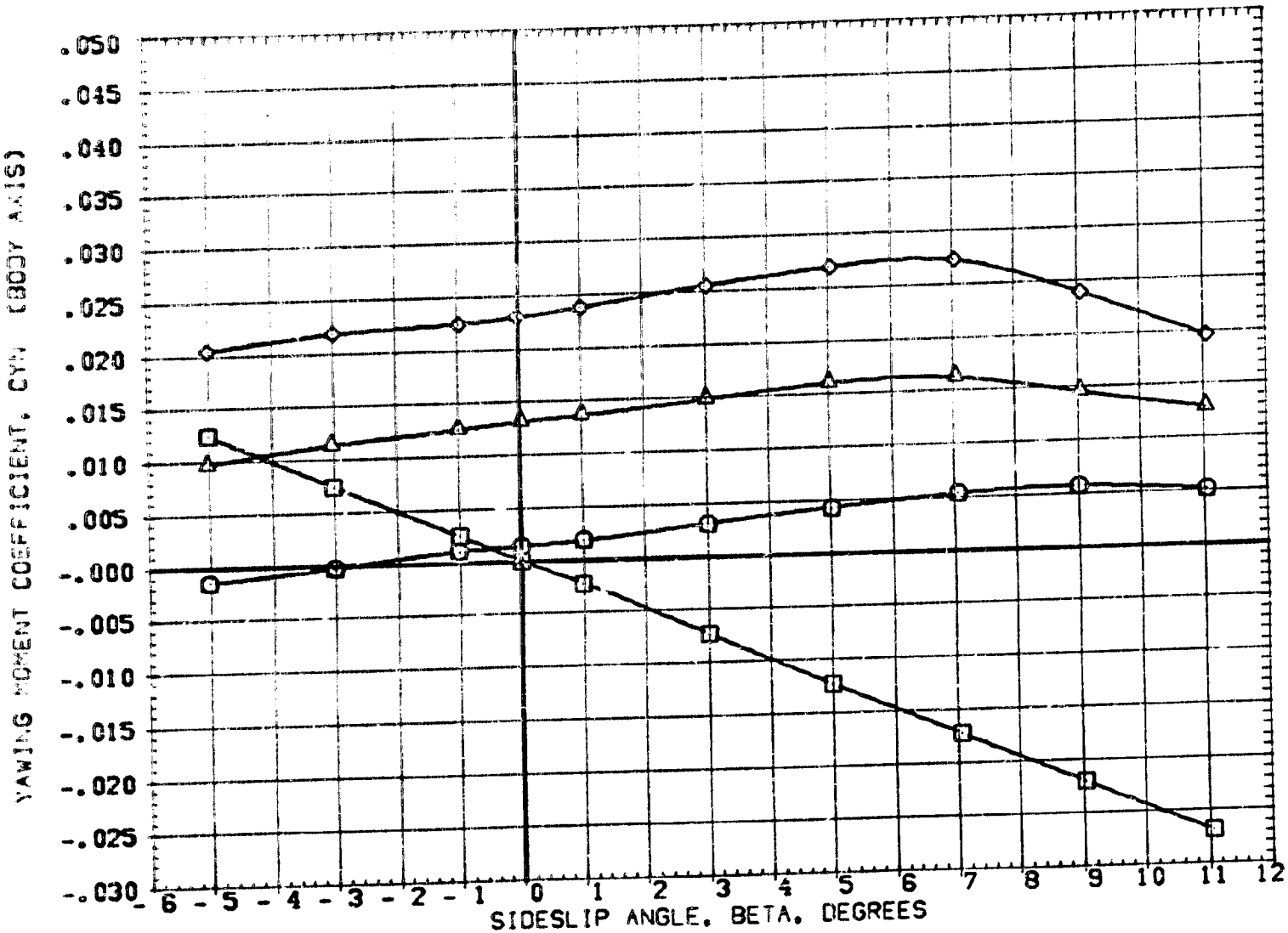


FIG. 57 SIDEWASH EFFECTS, WING OFF, ALPHA= 0 DEG.

(A)MACH = 0.26

DATA SET SYMBOL	CONFIGURATION DESIGNATION
○	SSV-AIP ORBITER B2C2V2M1F1V3K2
△	SSV-AIP ORBITER B2C2D2M1F1V3R1.2
◇	SSV-AIP ORBITER B2C2D2M1F1V3R3K2
□	SSV-AIP ORBITER B2C2D2M1F1

ALPHA	RUDDER	BFFLAP
0.000		0.000
0.000	-10.000	0.000
0.000	-20.000	0.000
0.000		0.000

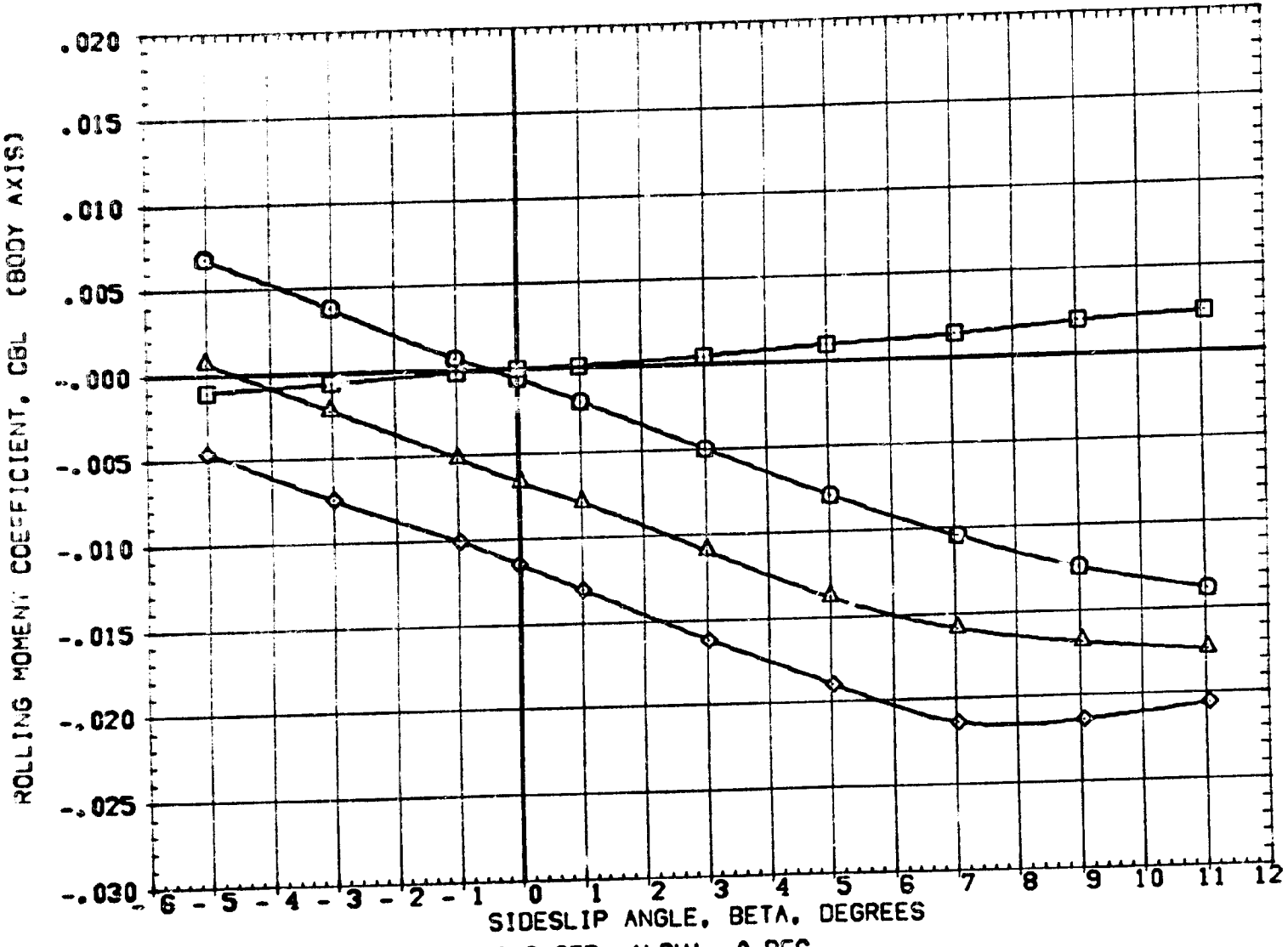


FIG. 57 SIDEWASH EFFECTS, WING OFF, ALPHA= 0 DEG.

(A)MACH = 0.26

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(80F849)	○	SSV-ATP ORBITER B2C2D2H1F1V3R2
(80F836)	△	SSV-ATP ORBITER B2C2D2H1F1V1R3R2
(80F863)	◇	SSV-ATP ORBITER B2C2D2H1F1V3R3R2
(80F891)	□	SSV-ATP ORBITER B2C2D2H1F1

ALPHA	RUDDER	B2FLAP
5.000		0.000
5.000	-10.000	0.000
5.000	-20.000	0.000
5.000		0.000

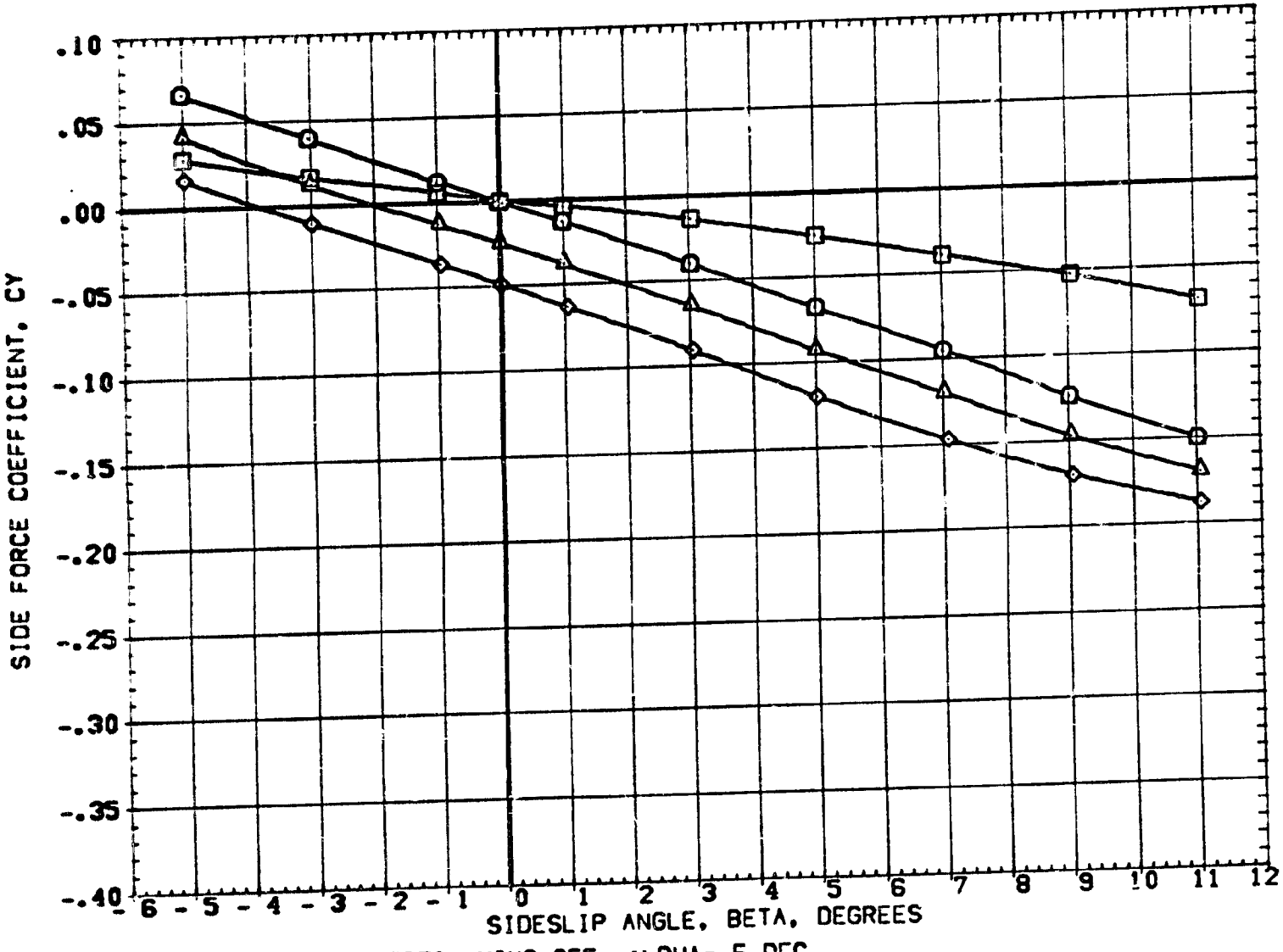


FIG. 58 SIDEWASH EFFECTS, WING OFF, ALPHA= 5 DEG.

(A)MACH = 0.26

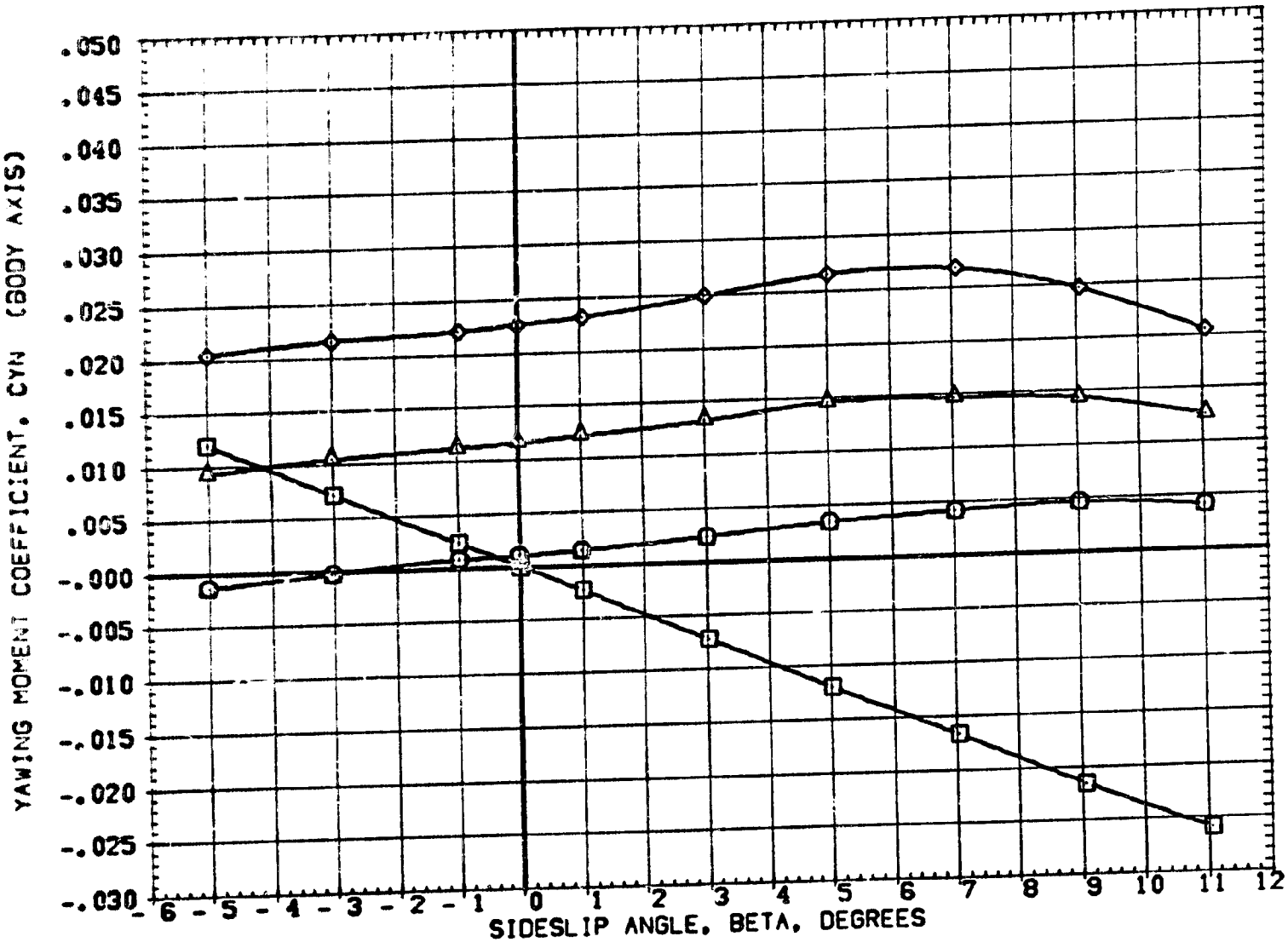


FIG. 58 SIDEWASH EFFECTS, WING OFF, ALPHA= 5 DEG.

(A)MACH = 0.26

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	ALPHA	RUDDER	B2FLAP
(BDF149)	○	33V-ATP ORBITER B2C2D2M1F1V3R2	5.000		0.000
(BDF150)	□	33V-ATP ORBITER B2C2D2M1F1V3R3R2	5.000	-10.000	0.000
(BDF163)	◇	33V-ATP ORBITER B2C2D2M1F1V3R3R2	5.000	-20.000	0.000
(BDF233)	△	33V-ATP ORBITER B2C2D2M1F1	5.000		0.000

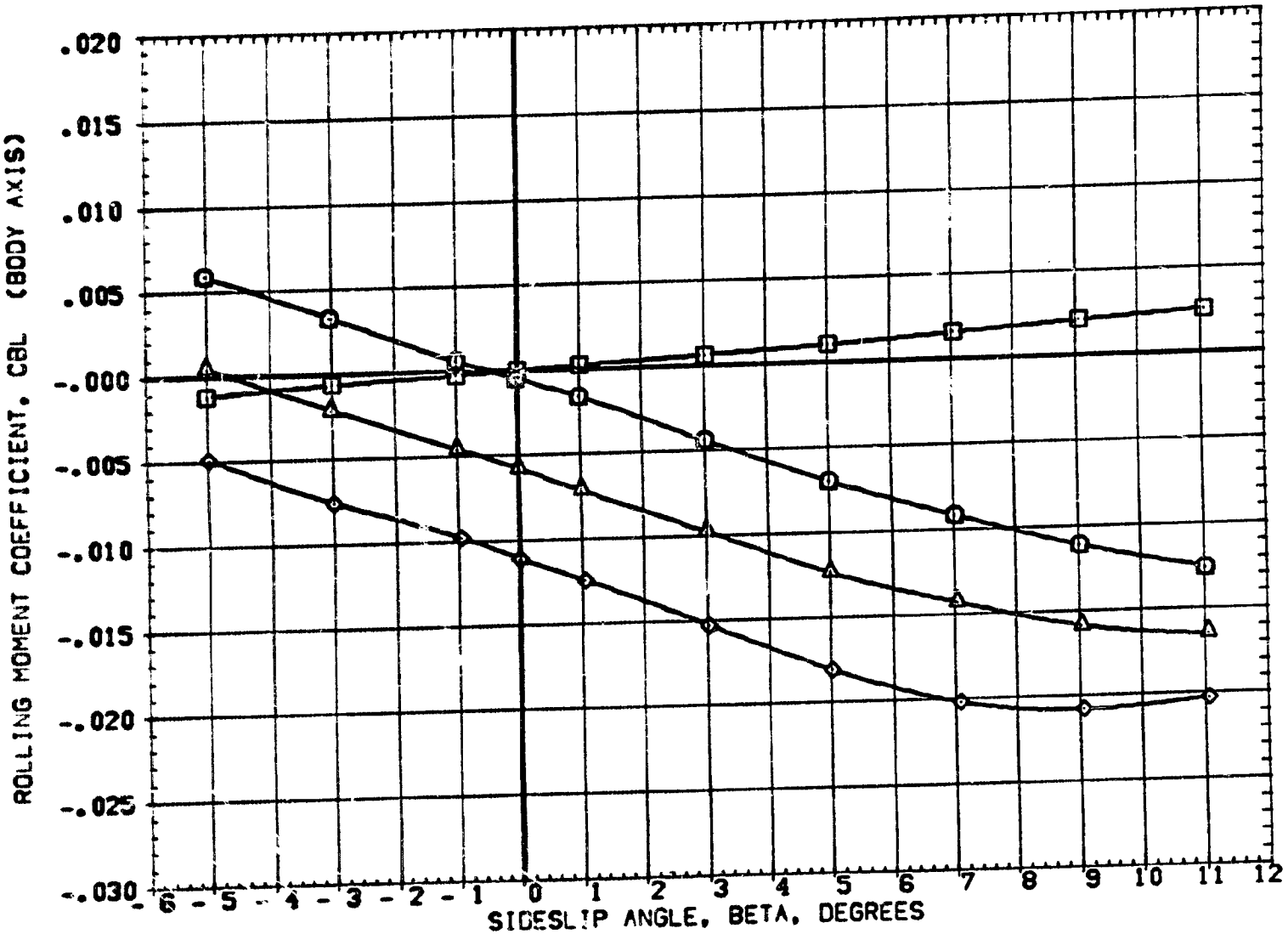


FIG. 58 SIDEWASH EFFECTS, WING OFF, ALPHA= 5 DEG.

(A)MACH = 0.26

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	ALPHA	RUDDER	SPLAP
[illegible]	○	SSV-ATP ORBITER B2C2D2EM1F1V3R2	10.000		0.000
[illegible]	△	SSV-ATP ORBITER B2C2D2M1F1V3R3R2	10.000	-10.000	0.000
[illegible]	□	SSV-ATP ORBITER B1C2D2M1F1V3R3R2	10.000	-20.000	0.000
[illegible]	◇	SSV-ATP ORBITER B2C2D2M1F1	10.000		0.000

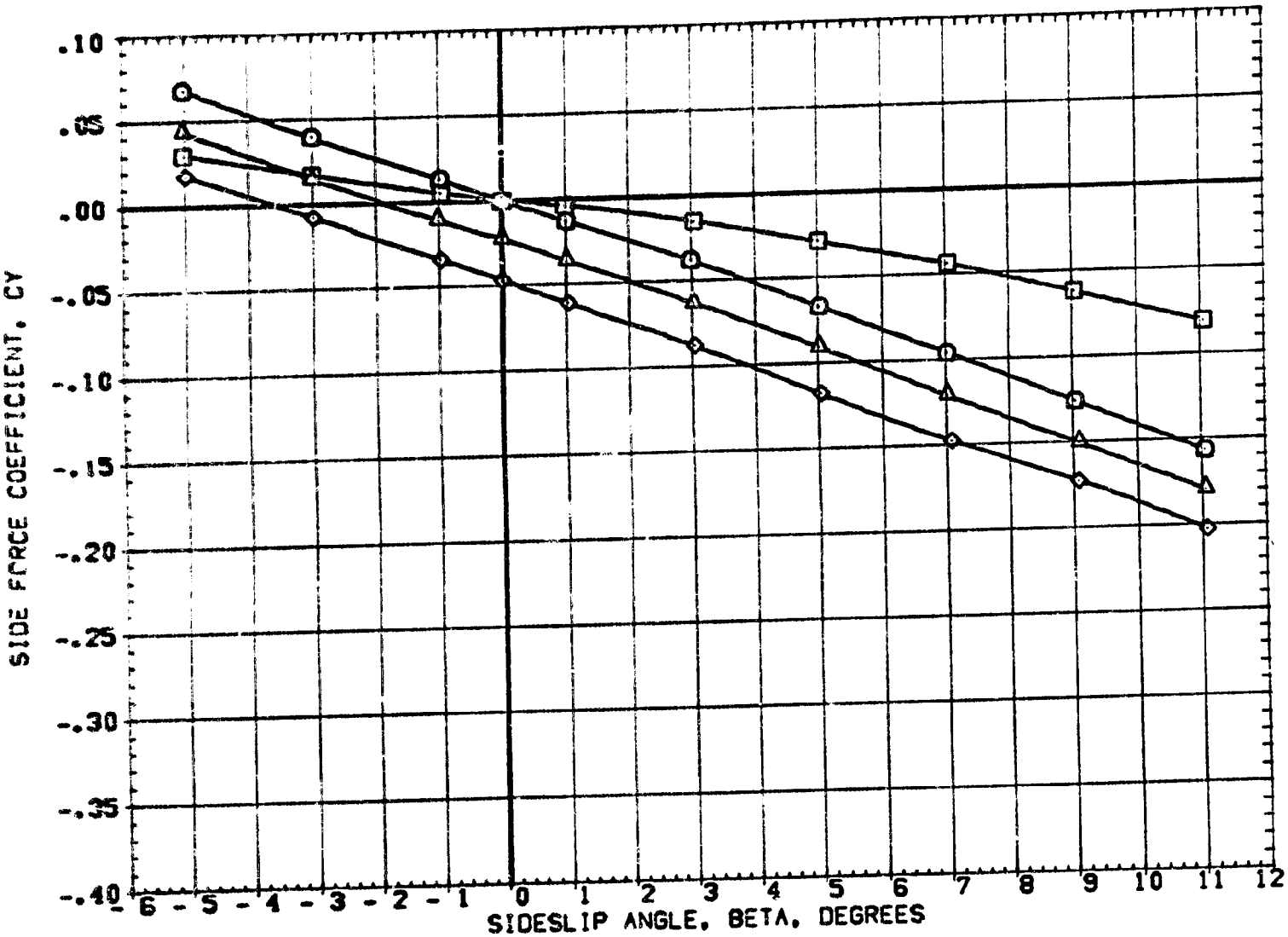


FIG. 59 SIDEWASH EFFECTS, WING OFF, ALPHA= 10 DEG.

(A)MACH = 0.26

DATA SET SYMBOL	CONFIGURATION DESCRIPTION
(80P192)	35V-ATP ORBITER 82C2D2M1F1V3R2
(80P193)	35V-ATP ORBITER 82C2D2M1F1V3R3R2
(80P194)	35V-ATP ORBITER 82C2D2M1F1V3R3R2
(80P002)	35V-ATP ORBITER 82C2D2M1F1

ALPHA	RUDDER	BEFLA
10.000		0.00
10.000	-10.000	0.0
10.000	-20.000	0.0
10.000		0.0

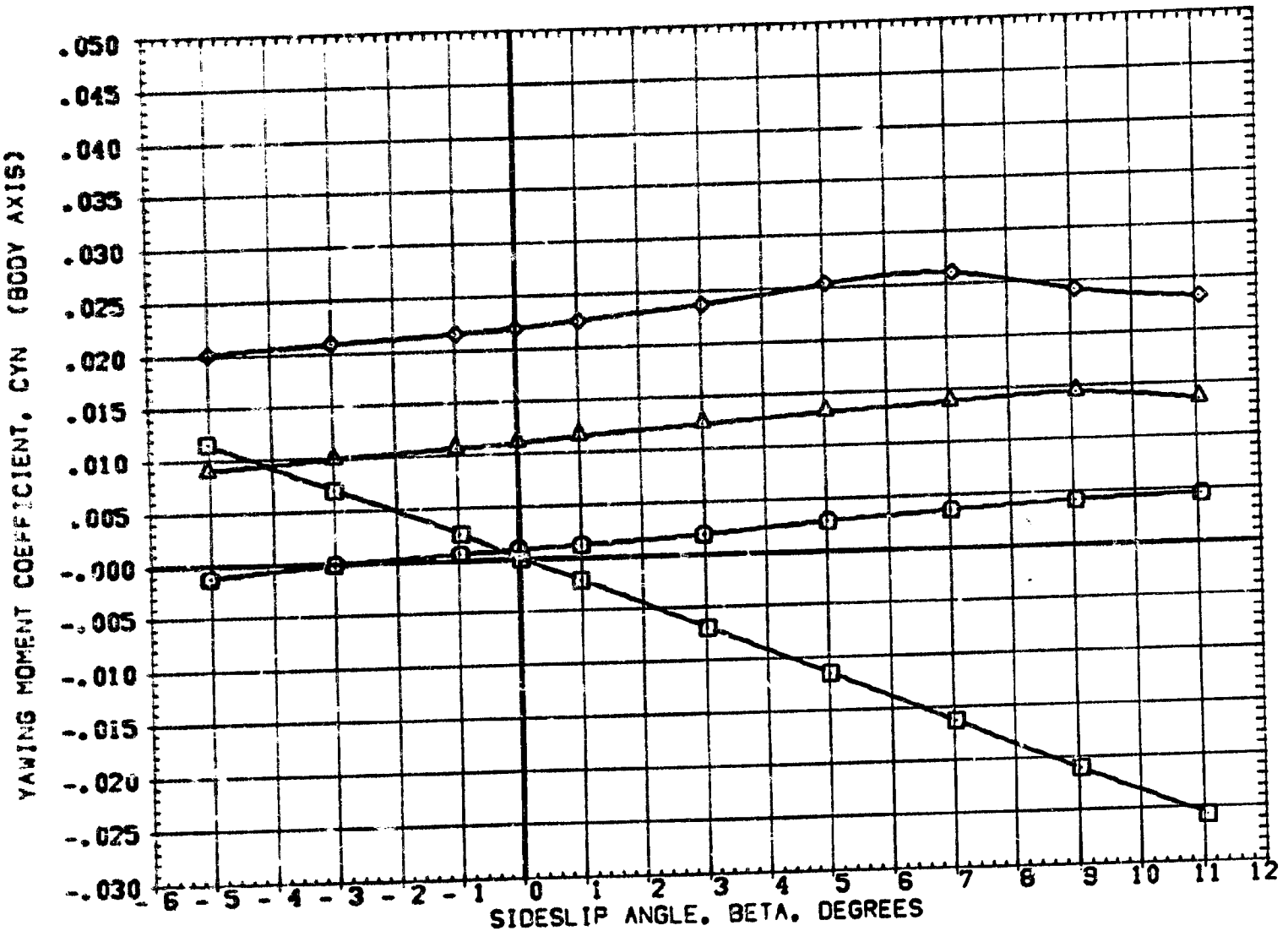


FIG. 59 SIDEWASH EFFECTS, WING OFF, ALPHA= 10 DEG.

(A)MACH = 0.26

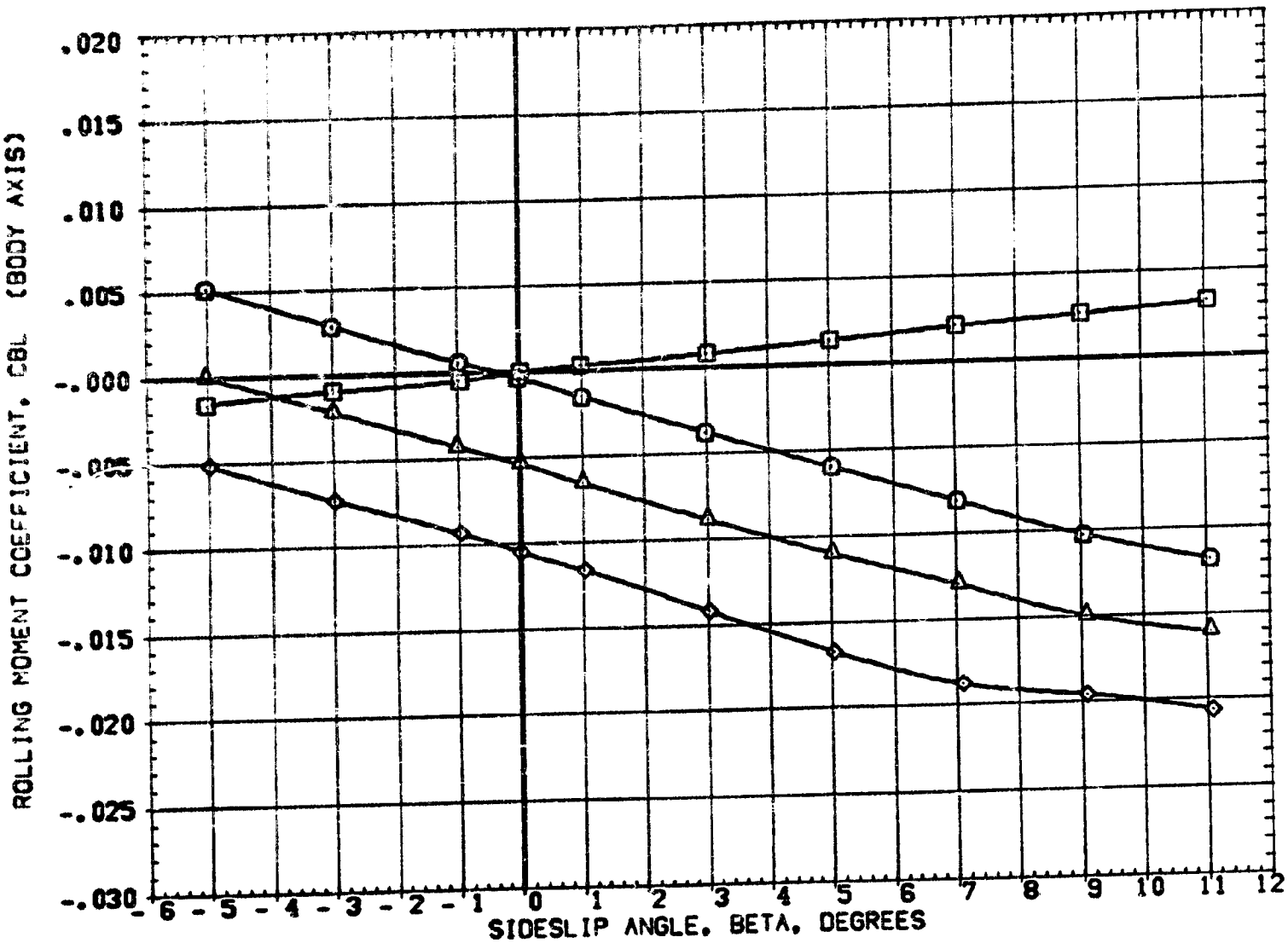


FIG. 59 SIDEWASH EFFECTS, WING OFF, ALPHA= 10 DEG.

(A)MACH = 0.26

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	ALPHA	RUDDER	BEFLAP
[illegible]		SSV-ATP ORBITER B2C2B2W1F1V3R2	15.000		0.000
[illegible]		SSV-ATP ORBITER B2C2B2W1F1V3R3R2	15.000	-10.000	0.000
[illegible]		SSV-ATP ORBITER B2C2B2W1F1V3B3R2	15.000	-20.000	0.000
[illegible]		SSV-ATP ORBITER B2C2B2W1F1	15.000		0.000

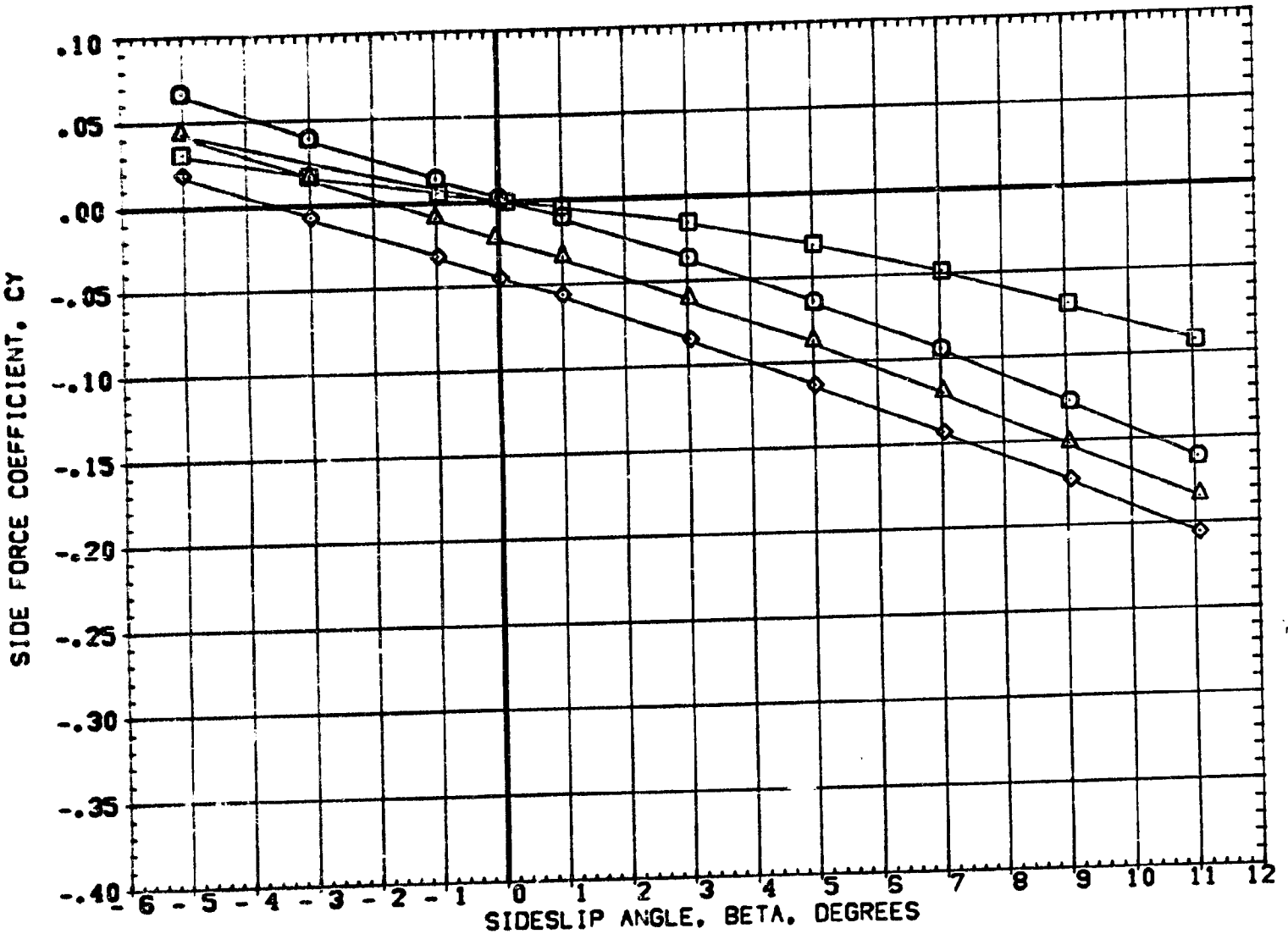


FIG. 60 SIDEWASH EFFECTS, WING OFF, ALPHA= 15 DEG.

(A)MACH = 0.26

DATA SET SYMBOL	CONFIGURATION DESCRIPTION
(RDF191)	33V-ATP ORBITER B2C2D2M1F1V3R2
(RDF199)	33V-ATP ORBITER B2C2D2M1F1V3R3K2
(RDF169)	33V-ATP ORBITER B2C2D2M1F1V3R3K2
(RDF933)	33V-ATP ORBITER B2C2D2M1F1

ALPHA	RUDDER	BEFLAP
15.000		0.000
15.000	-10.000	0.000
15.000	-20.000	0.000
15.000		0.000

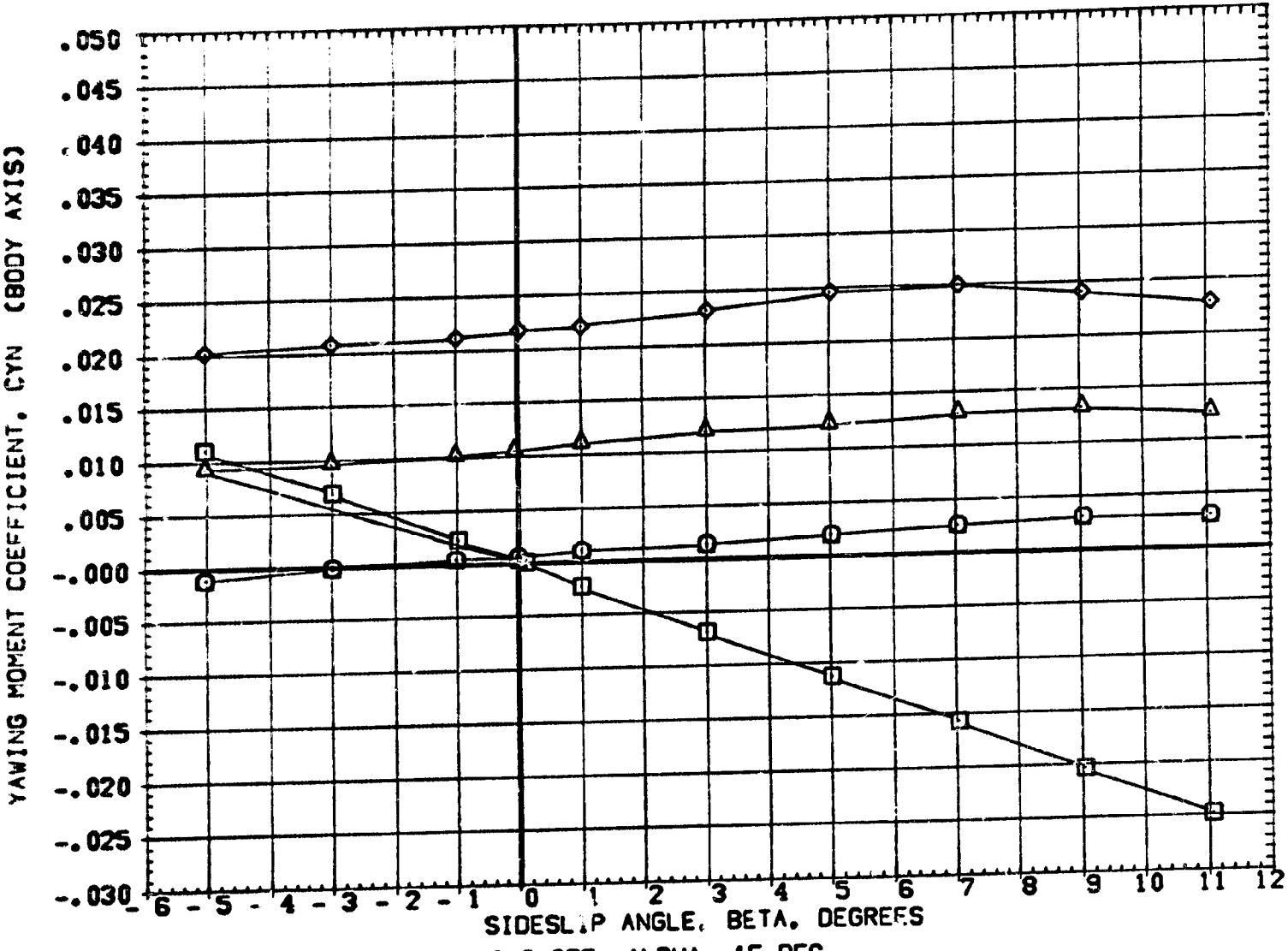


FIG. 60 SIDEWASH EFFECTS, WING OFF, ALPHA= 15 DEG.

(A)MACH = 0.26

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	ALPHA	RUDDER	B2FLAP
(80P191)	○	SSV-ATP ORBITER B2C2D2M1F1V3R2	15.000		0.000
(80P194)	△	SSV-ATP ORBITER B2C2D2M1F1V3R3R2	15.000	-10.000	0.000
(80P185)	◇	SSV-ATP ORBITER B2C2D2M1F1V3R3R2	15.000	-20.000	0.000
(80P035)	□	SSV-ATP ORBITER B2C2D2M1F1	15.000		0.000

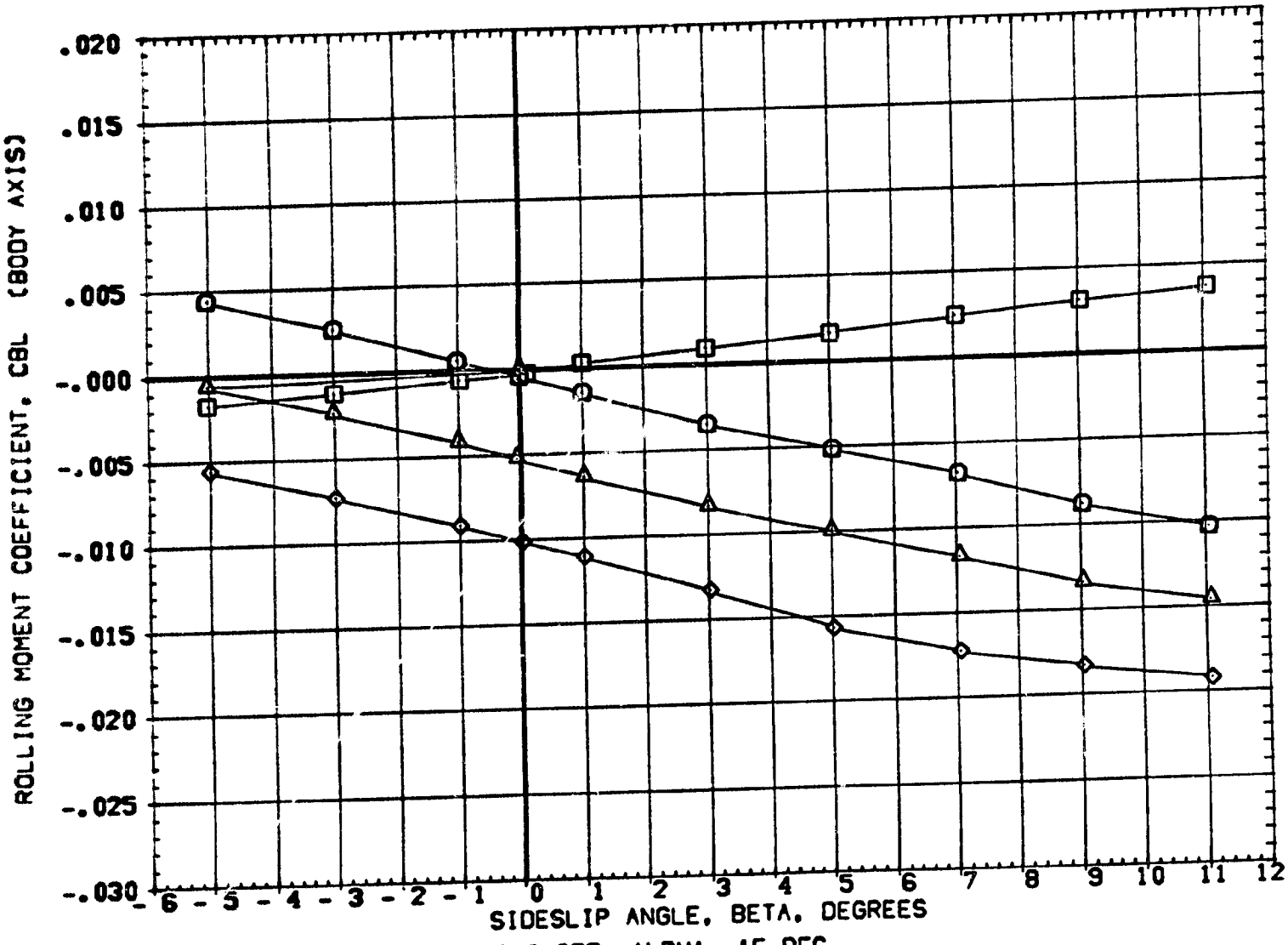


FIG. 60 SIDEWASH EFFECTS, WING OFF, ALPHA= 15 DEG.

(A)MACH = 0.26

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION		ALPHA	RUDDER	B2FLAP
(B0P192)	○	SSV-ATP ORBITER	B2C2D2M1F1V3RP	18.000		0.000
(B0P195)	△	SSV-ATP ORBITER	B2C2D2M1F1V3R3R2	18.000	-10.000	0.000
(B0P188)	◇	SSV-ATP ORBITER	B2C2D2M1F1V3R5R2	18.000	-20.000	0.000
(B0P034)	□	SSV-ATP ORBITER	B2C2D2M1F1	18.000		0.000

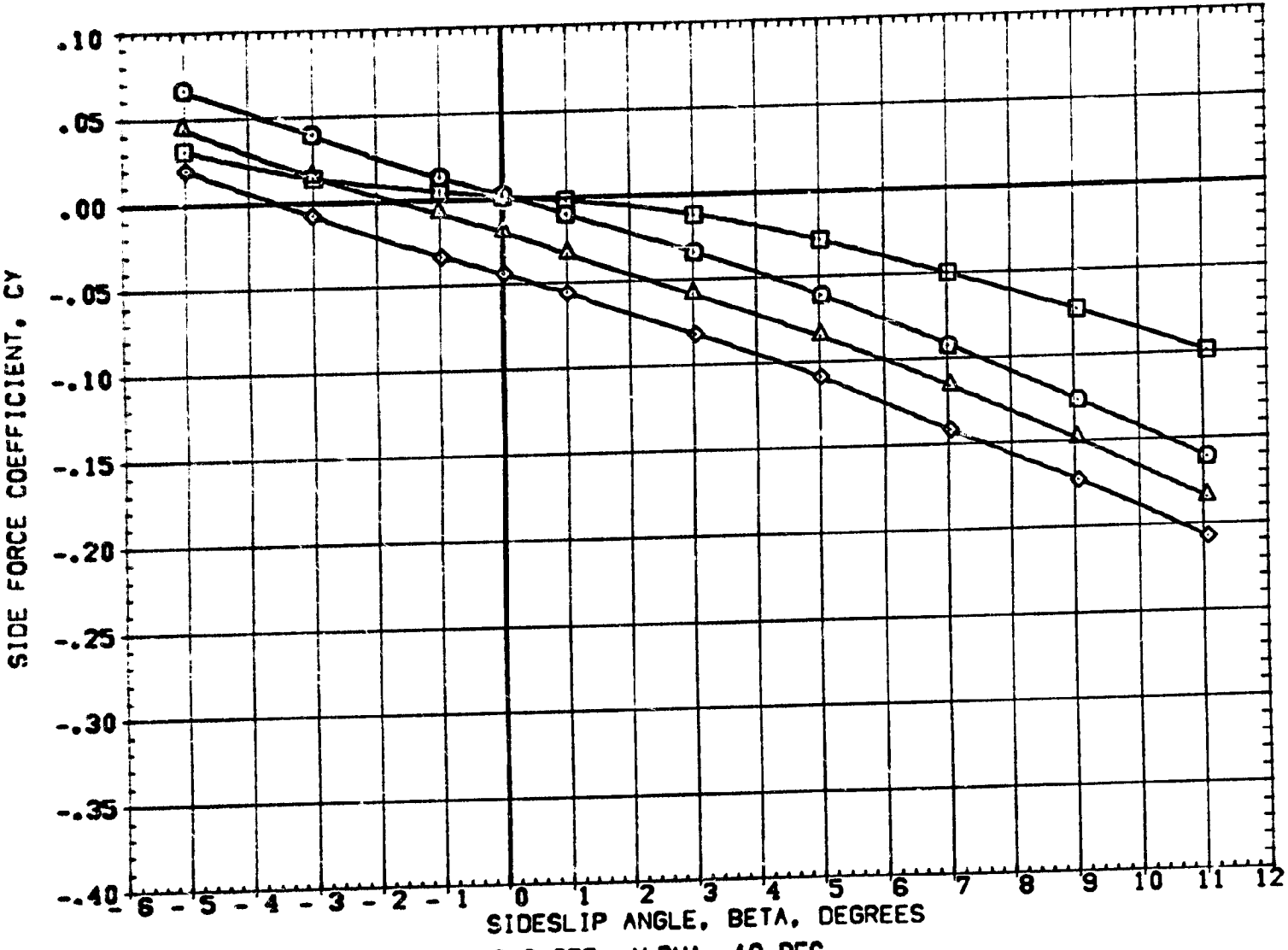


FIG. 61 SIDEWASH EFFECTS, WING OFF, ALPHA= 18 DEG.

(A)MACH = 0.26

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	ALPHA	RUDDER	BEFLAP
(BDP132)	○	33V-ATP ORBITER B2C2D2H1F1V3R2	18.000		0.000
(BDP133)	△	33V-ATP ORBITER B2C2D2H1F1V3R3R2	18.000	-10.000	0.000
(BDP166)	◇	33V-ATP ORBITER B2C2D2H1F1V3R3R2	18.000	-20.000	0.000
(BDP034)	□	33V-ATP ORBITER B2C2D2H1F1	18.000		0.000

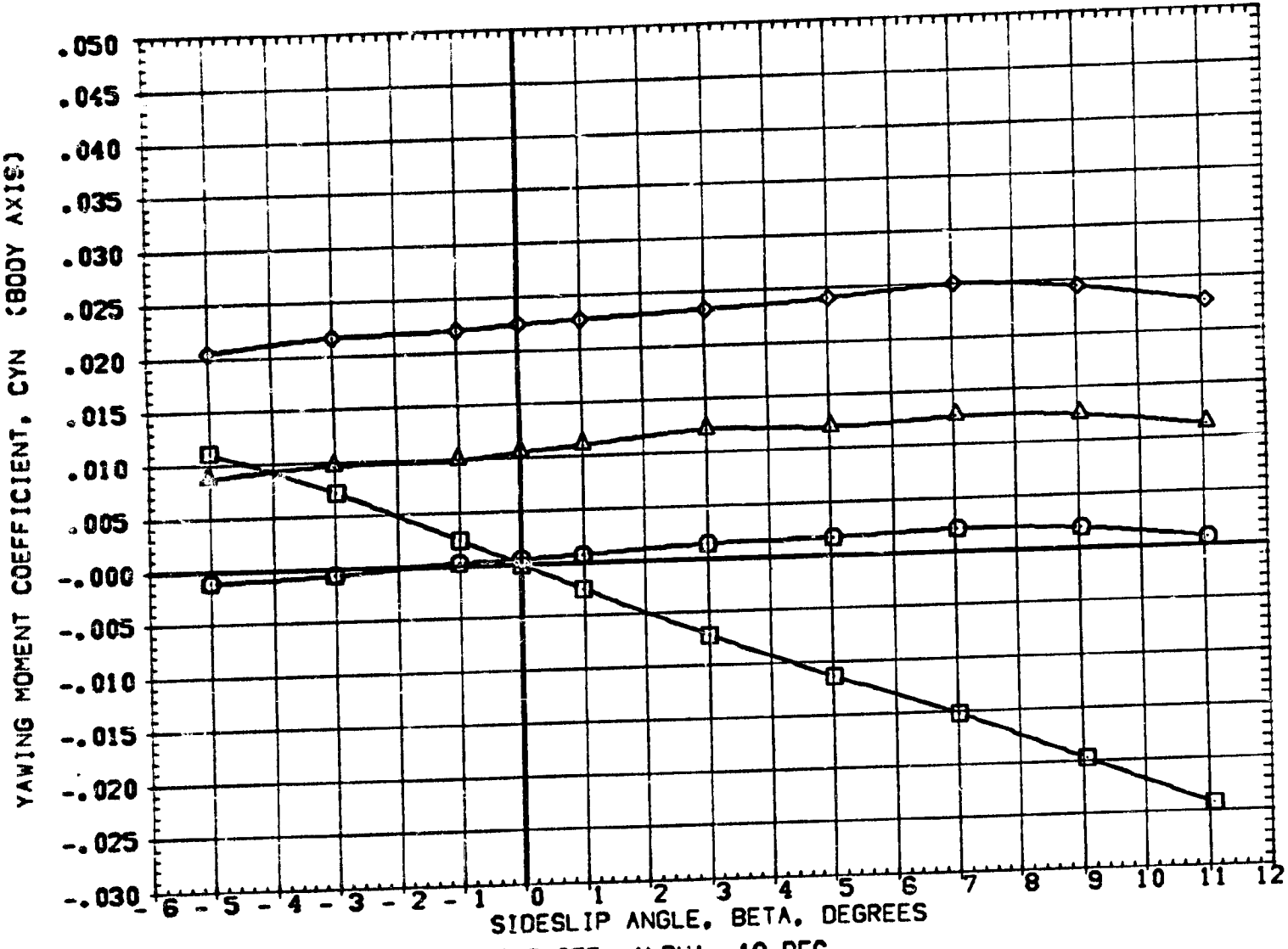


FIG. 61 SIDEWASH EFFECTS, WING OFF, ALPHA= 18 DEG.

(A)MACH = 0.26

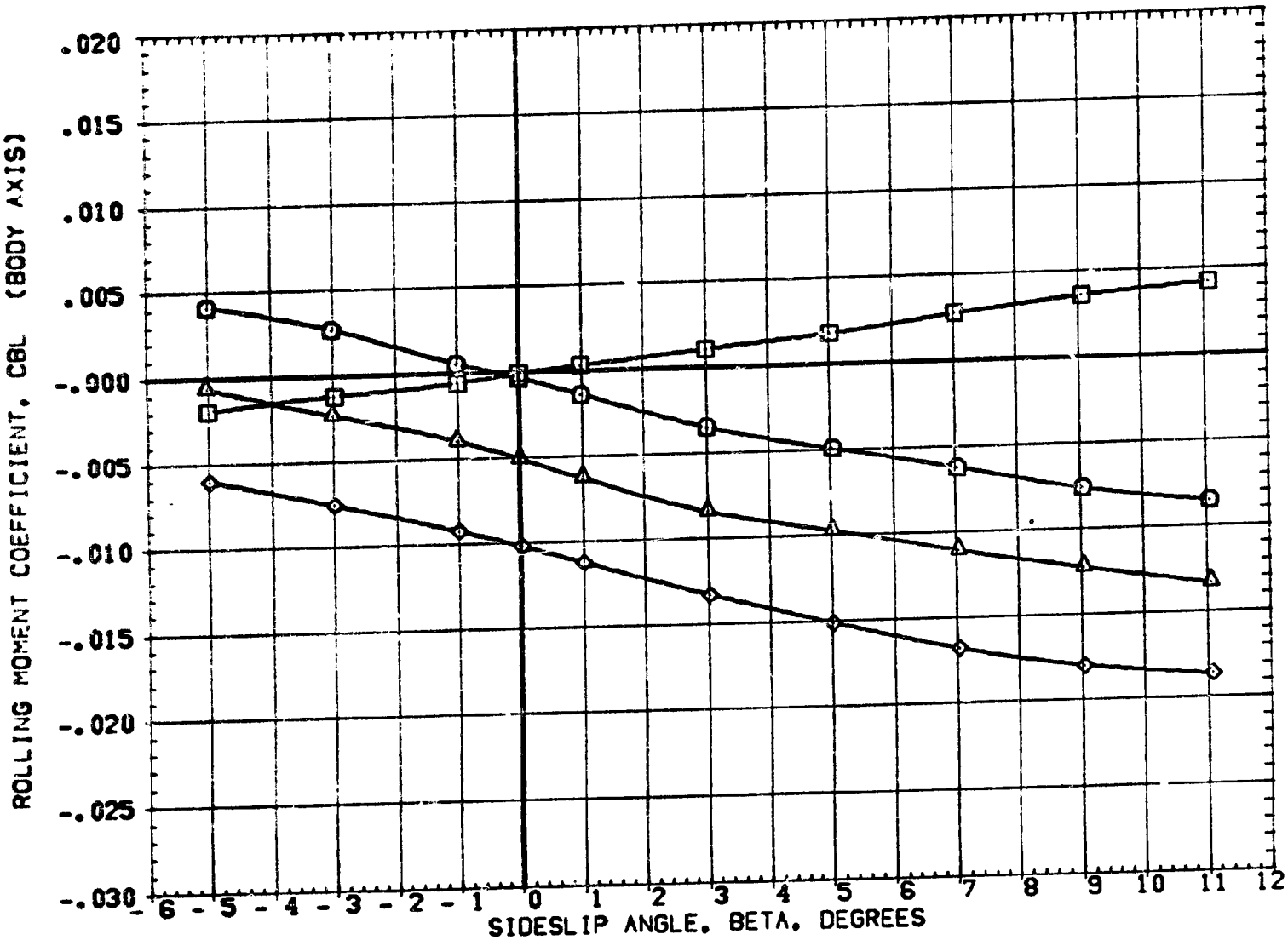


FIG. 61 SIDEWASH EFFECTS, WING OFF, ALPHA= 18 DEG.

(A)MACH = 0.26

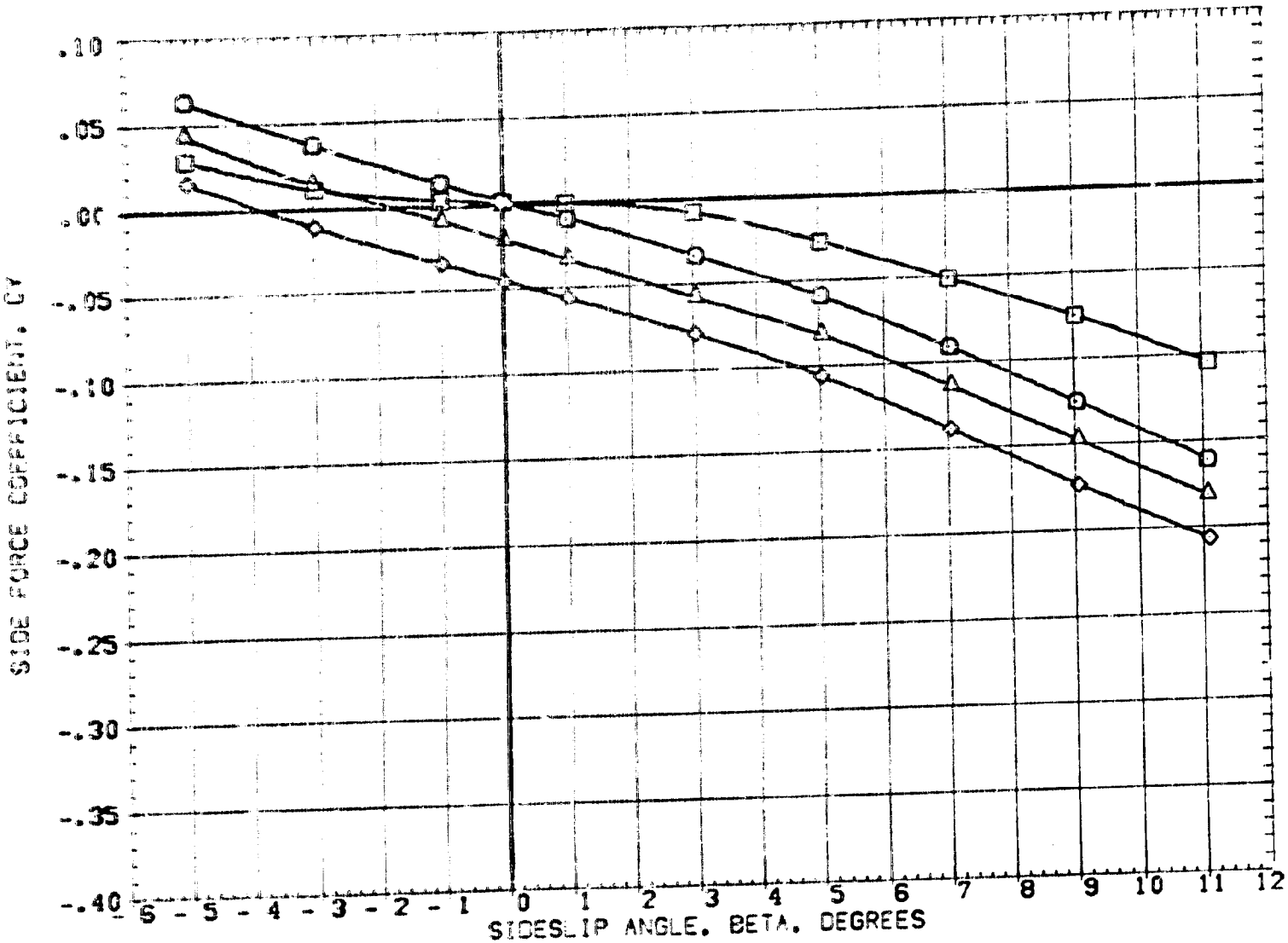


FIG. 62 SIDEWASH EFFECTS, WING OFF, ALPHA= 20 DEG.

CA)MACH = 0.26

REPRODUCIBILITY OF THE ORIGINAL PAGE IS POOR

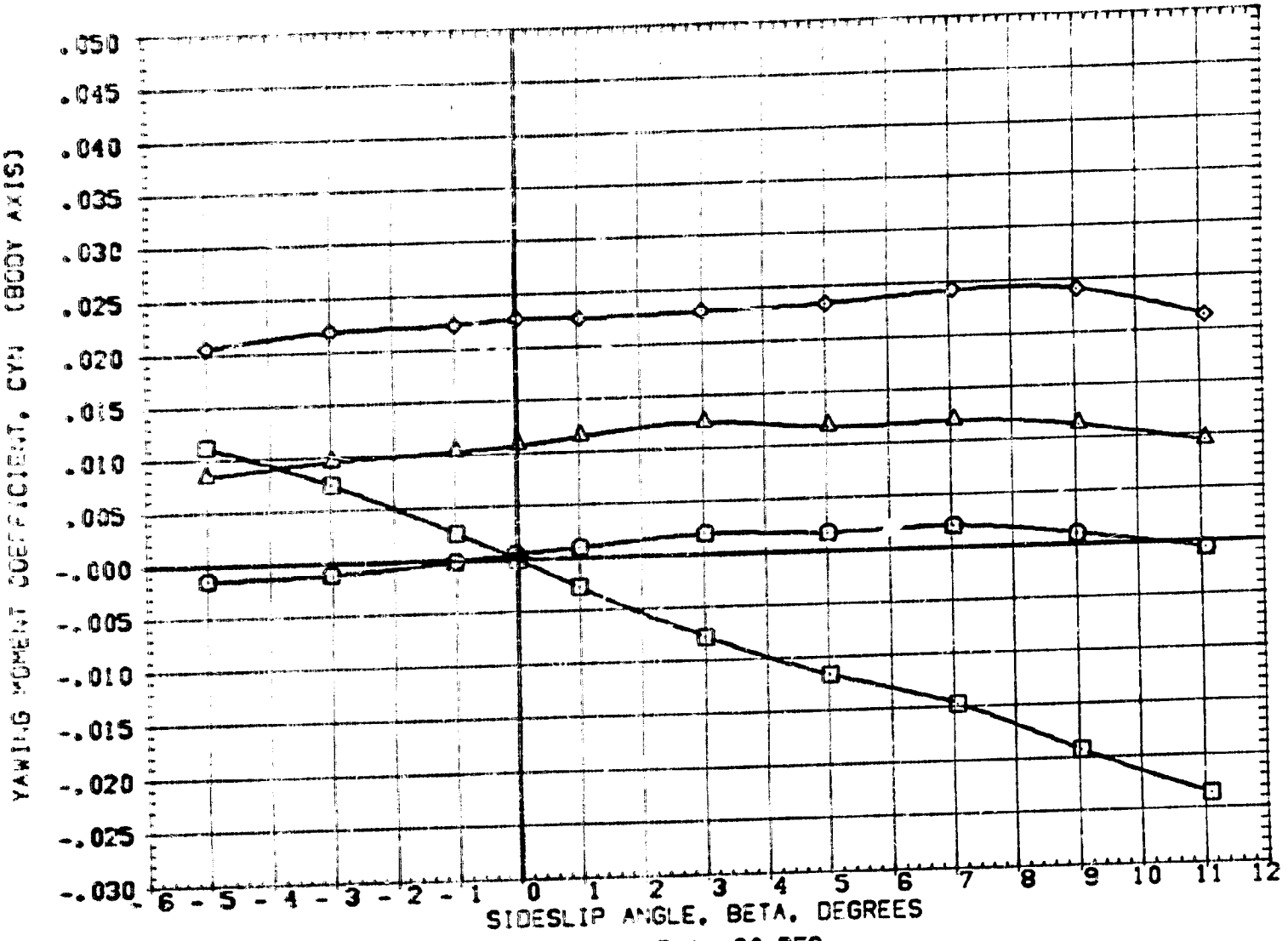


FIG. 62 SIDEWASH EFFECTS, WING OFF, ALPHA= 20 DEG.

(A)MACH = 0.26

DATA SET SYMBOL	CONFIGURATION DESCRIPTION
[illegible]	[illegible]
[illegible]	[illegible]
[illegible]	[illegible]
[illegible]	[illegible]
[illegible]	[illegible]

ALPHA	RUDDER	B2FLAP
20.000		0.000
20.000	10.000	0.000
20.000	-20.000	0.000
20.000		0.000

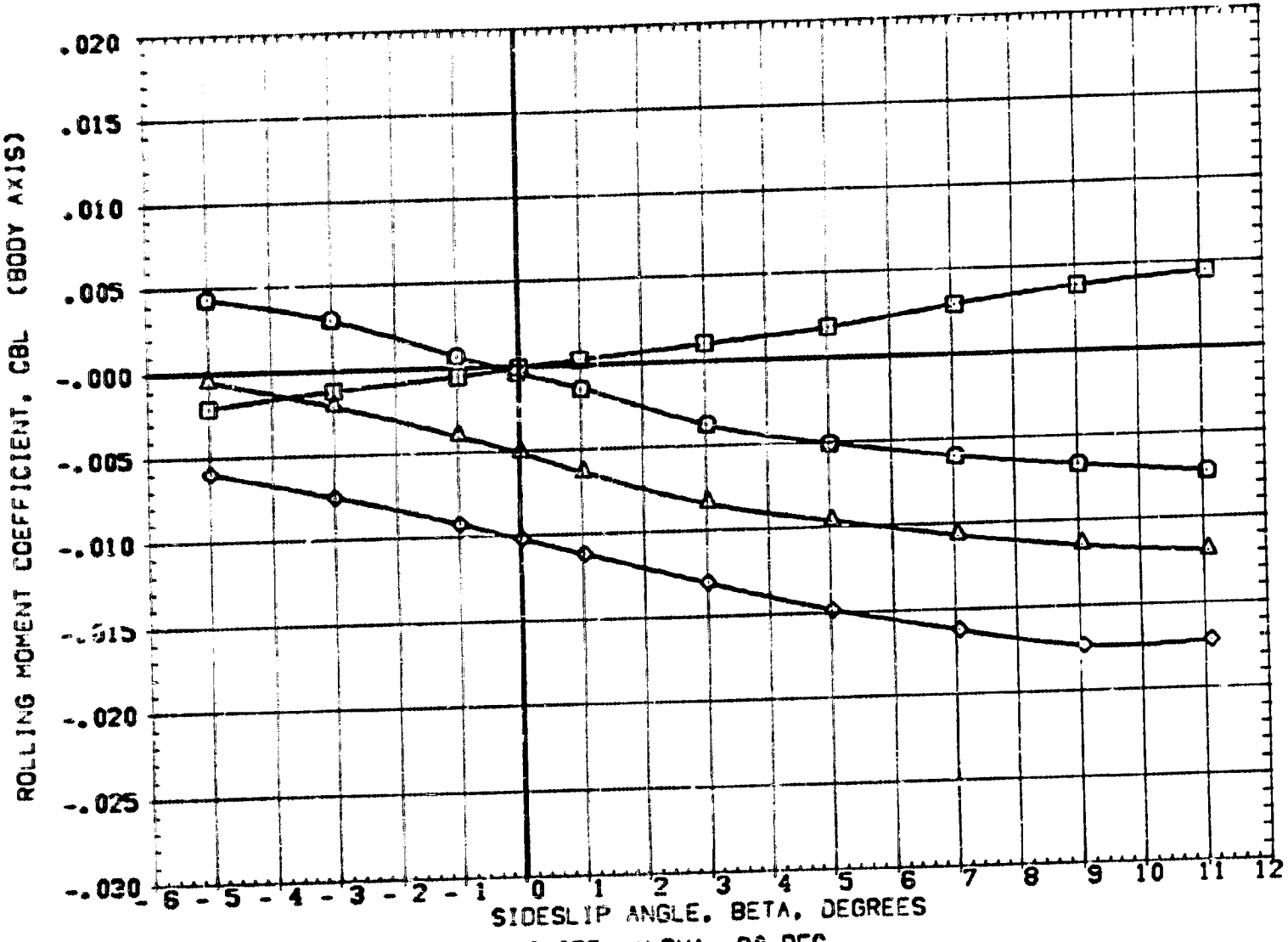


FIG. 62 SIDEWASH EFFECTS, WING OFF, ALPHA= 20 DEG.

(A)MACH = 0.26

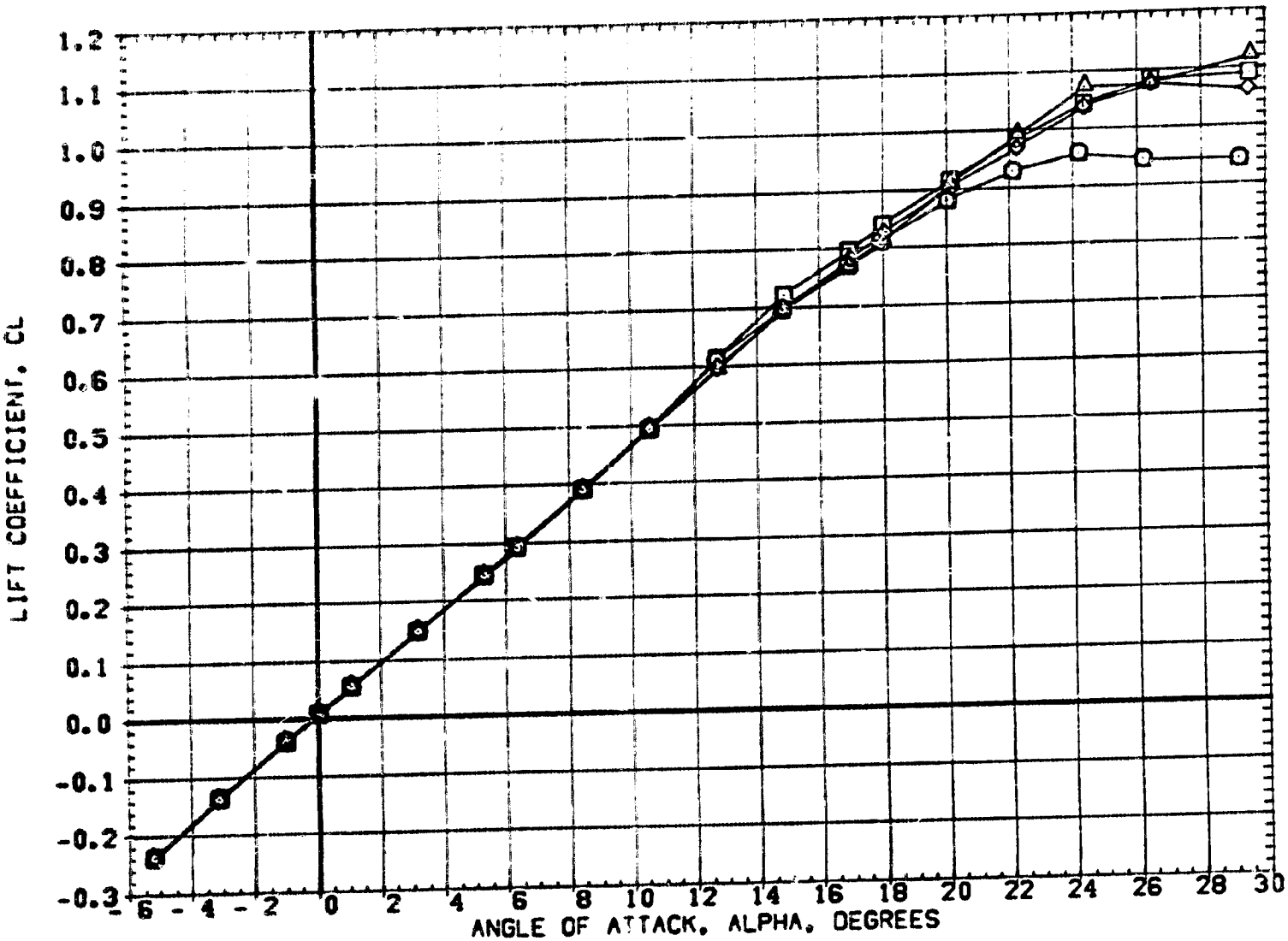


FIG. 63 EFFECT OF FUSELAGE STRAKE

(A)MACH = 0.26

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	BETA	BFLAP	STRAKE
(ADF084)	○	55V-ATP ORBITER B2C2D2M1F1W2V3R2	0.000	0.000	
(ADF169)	△	55V-ATP ORBITER B2J2C2D2M1F1W2V3R2	0.000	0.000	5.000
(ADF173)	◇	55V-ATP ORBITER B2J2C2D2M1F1W2V3R2	0.000	0.000	6.000
(ADF172)	□	55V-ATP ORBITER B2J2C2D2M1F1W2V3R2	0.000	0.000	7.000

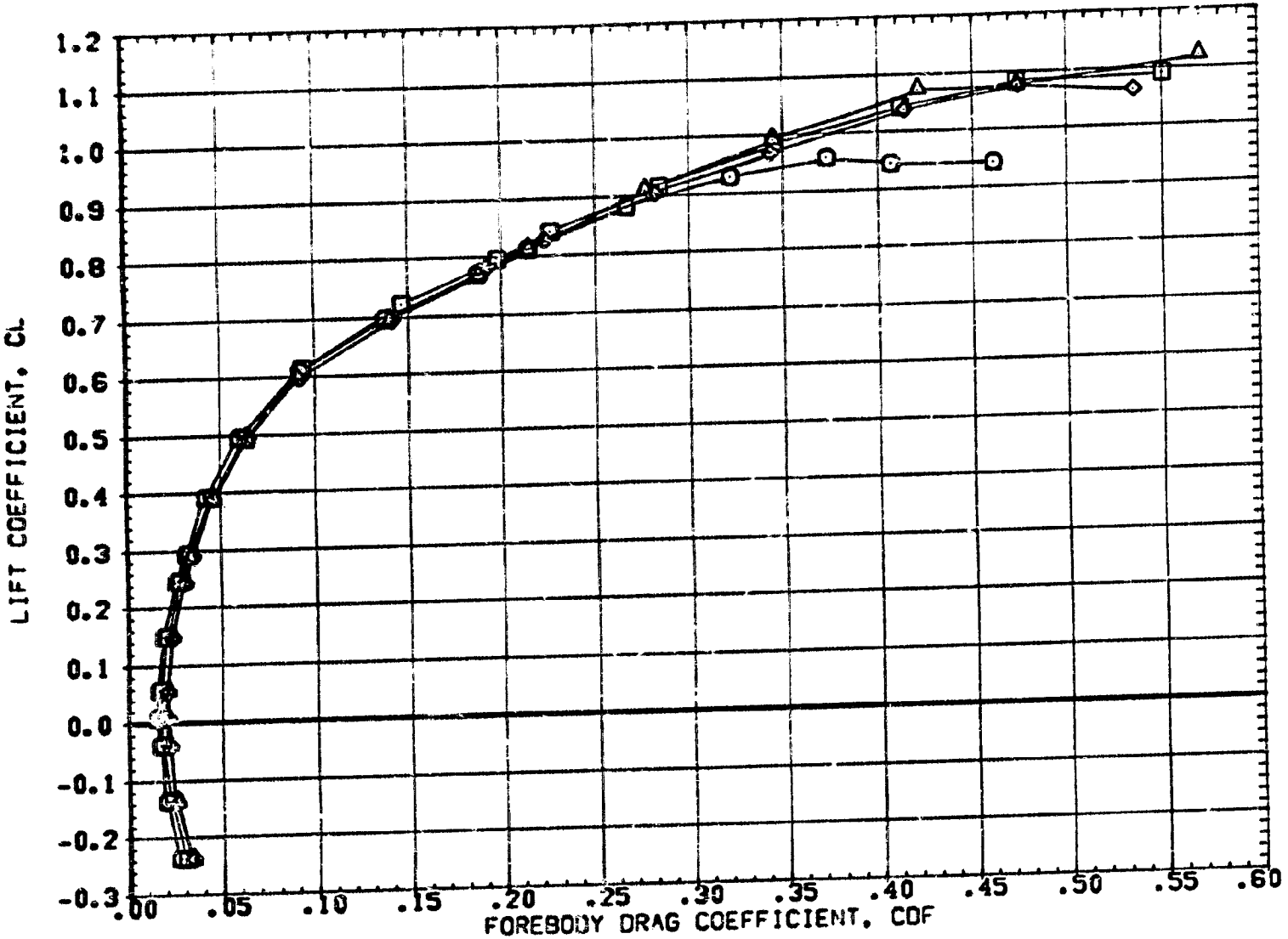


FIG. 63 EFFECT OF FUSELAGE STRAKE

(A)MACH = 0.26

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	BETA	DFLAP	STRAKE
(ADP084)	○	55Y-ATP ORBITER BEC2D2M1F1W2V3K2	0.000	0.000	
(ADP169)	△	55Y-ATP ORBITER BF02C2D2M1F1W2V3K2	0.000	0.000	5.000
(ADP170)	◇	55Y-ATP ORBITER B202C2D2M1F1W2V3K2	0.000	0.000	6.000
(ADP172)	□	55Y-ATP ORBITER B232C2D2M1F1W2V3K2	0.000	0.000	7.000

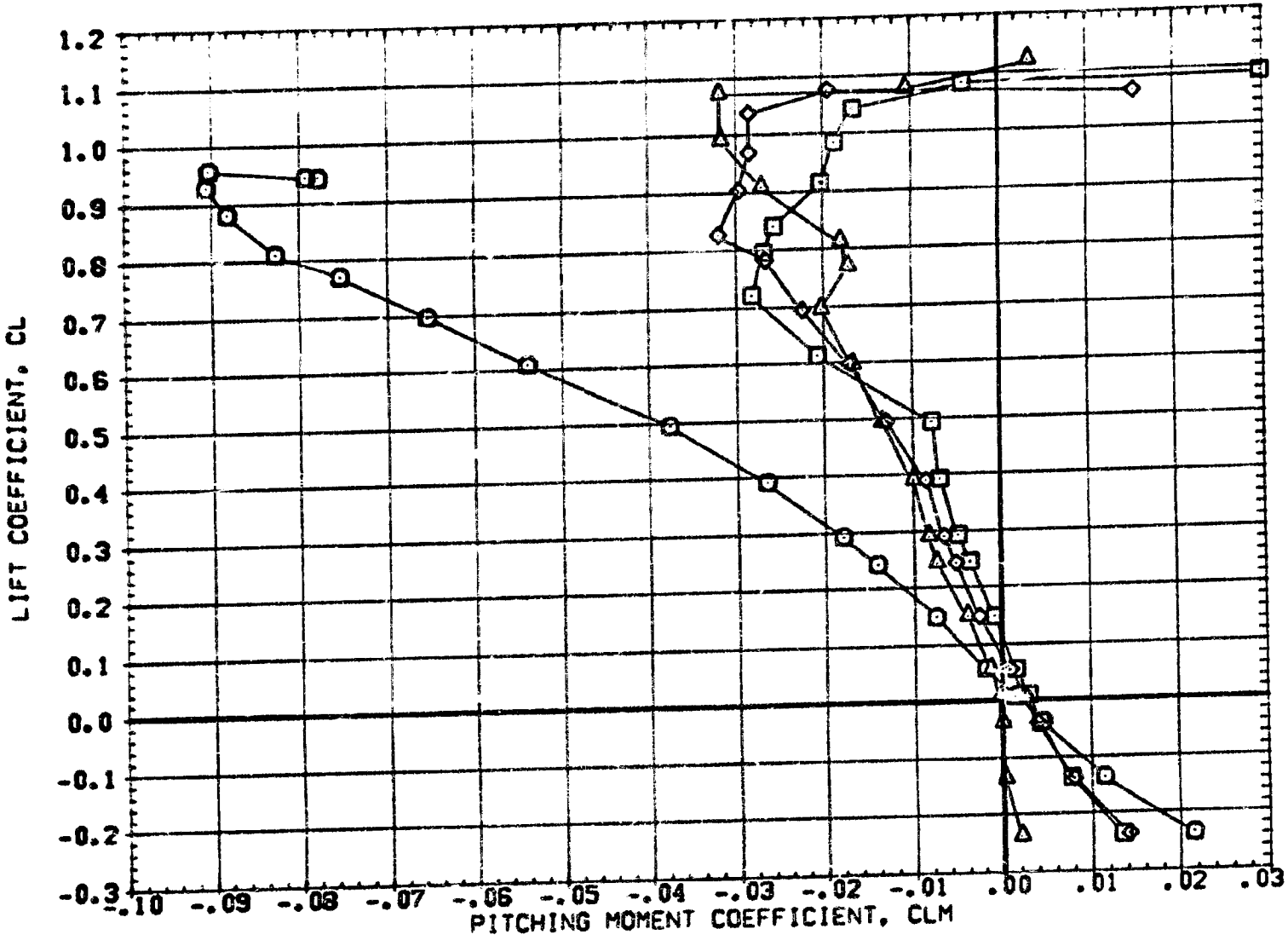


FIG. 63 EFFECT OF FUSELAGE STRAKE

(A)MACH = 0.26

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	B2FLAP	STRAKE
(ADF084)	SSV-ATP ORBITER B2C2D2M1F1W2V3K2	0.000	0.000	
(ADF168)	SSV-ATP ORBITER B2C2D2M1F1W2V3K2	0.000	0.000	5.000
(ADF170)	SSV-ATP ORBITER B2C2D2M1F1W2V3K2	0.000	0.000	6.000
(ADF172)	SSV-ATP ORBITER B2C2D2M1F1W2V3K2	0.000	0.000	7.000

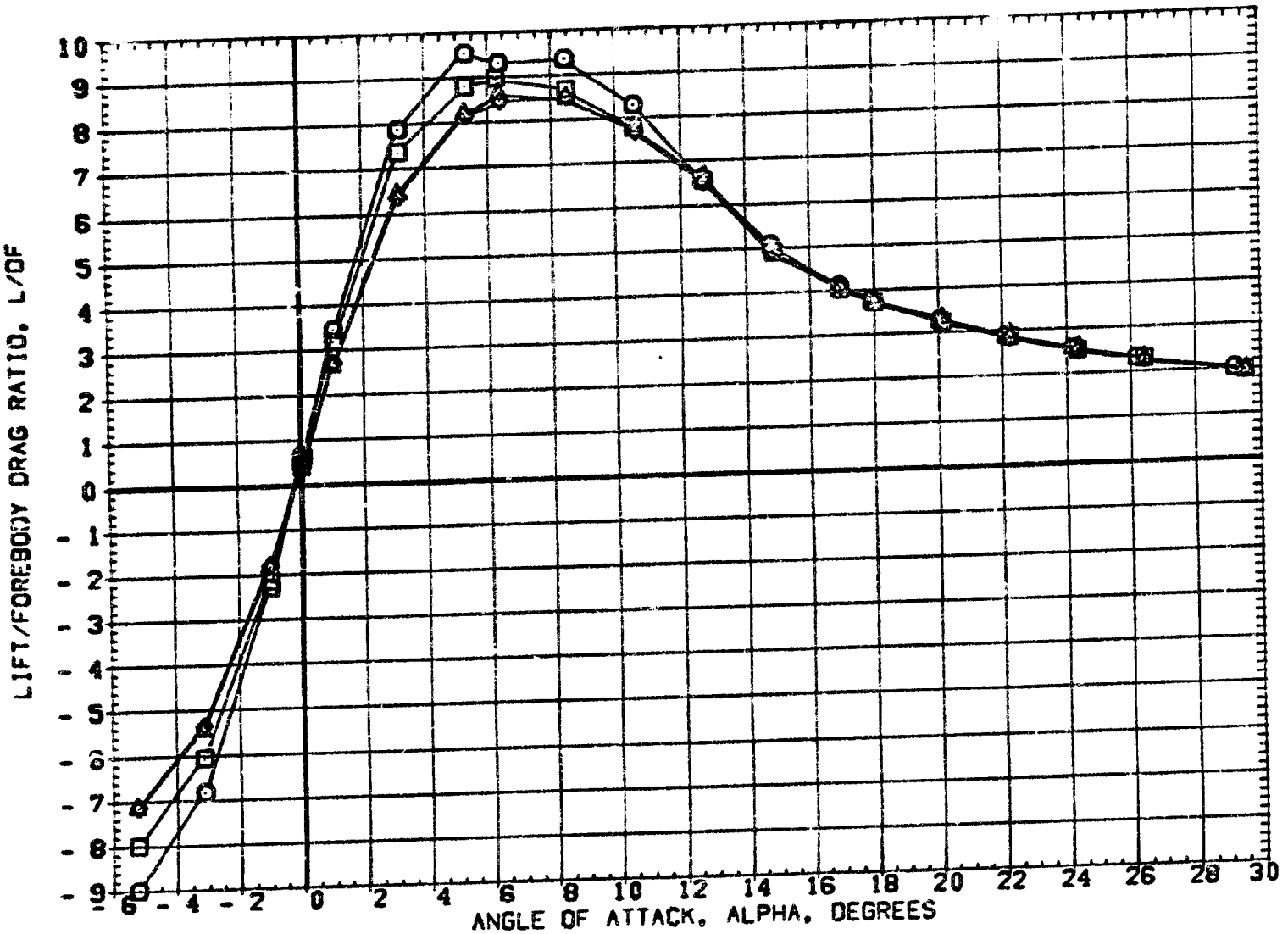


FIG. 63 EFFECT OF FUSELAGE STRAKE

(A)MACH = 0.26

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	DEFLAP	STRAKE
(ADP004)	SSV-ATP ORBITER B2C2D2M1F1W2V3K2	0.000	0.000	
(ADP161)	SSV-ATP ORBITER B2D2C2D2M1F1W2V3K2	0.000	0.000	5.000
(ADP190)	SSV-ATP ORBITER B2D2C2D2M1F1W2V3K2	0.000	0.000	6.000
(ADP192)	SSV-ATP ORBITER B2D2C2D2M1F1W2V3K2	0.000	0.000	7.000

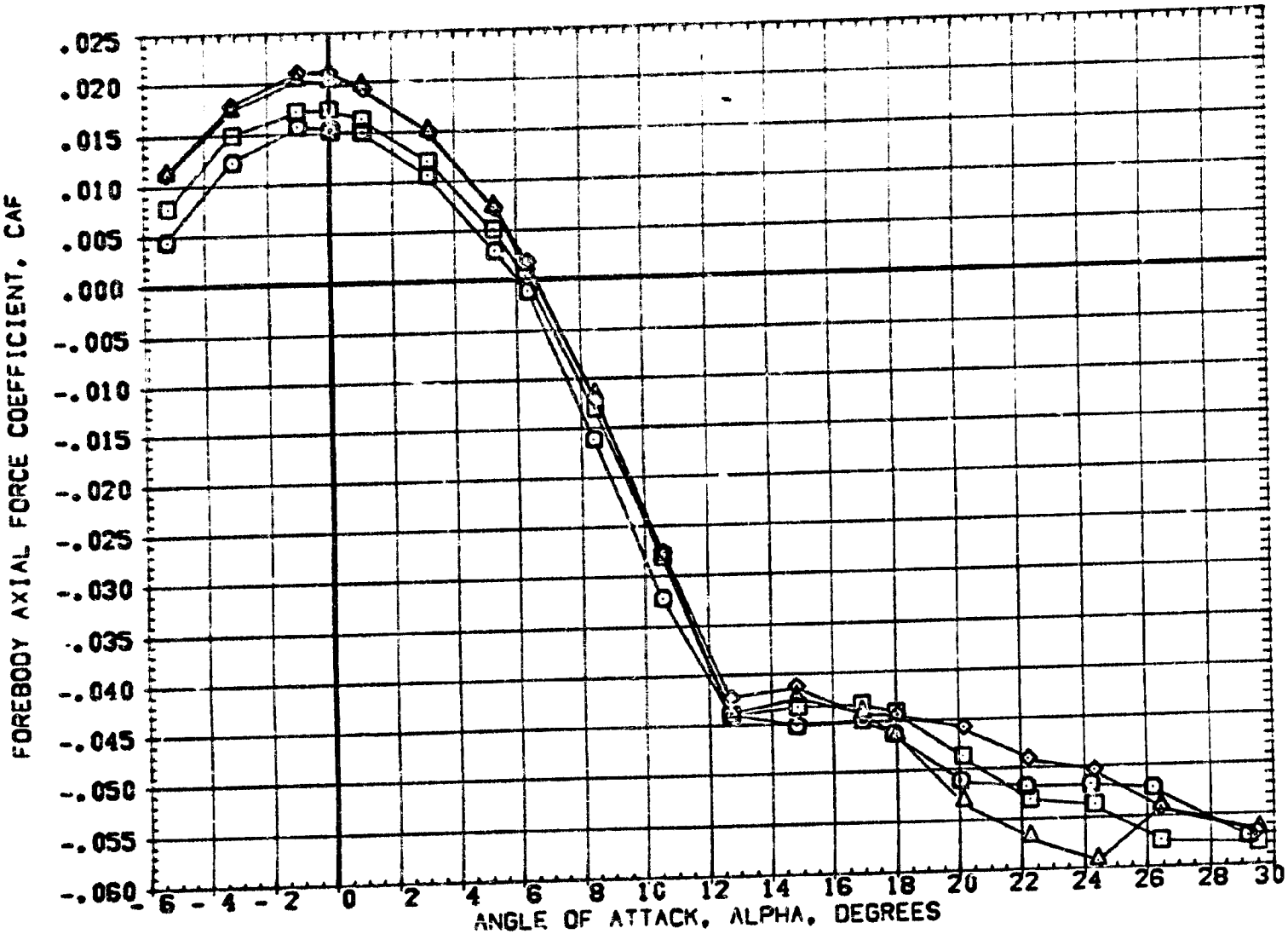


FIG. 63 EFFECT OF FUSELAGE STRAKE

(A)MACH = 0.26

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	BETA	B2FLAP	STRAKE
(ADP364)	○	SSV-ATP ORBITER B2C2D2M1F1W2V3R0	0.000	0.000	
(ADP168)	⊠	SSV-ATP ORBITER B2D2C2D2M1F1W2V3R2	0.000	0.000	5.000
(ADP179)	◇	SSV-ATP ORBITER B2D2C2D2M1F1W2V3R2	0.000	0.000	6.000
(ADP192)	□	SSV-ATP ORBITER B2D2C2D2M1F1W2V3R2	0.000	0.000	7.000

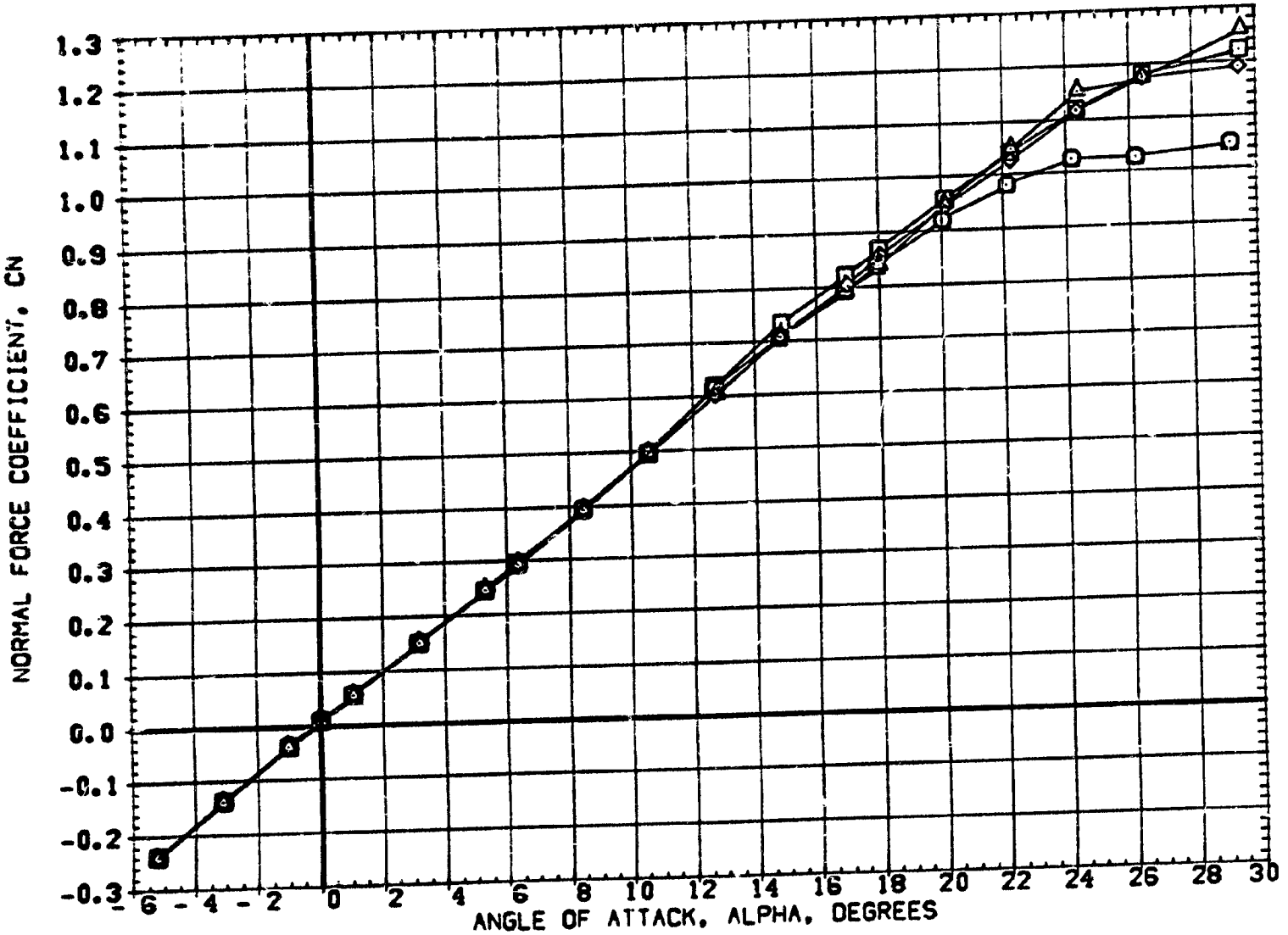


FIG. 63 EFFECT OF FUSELAGE STRAKE

(A)MACH = 0.26

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	BETA	DELTA	
(ADP064)		33V-ATP ORBITER B2C202M1F1W2V3R2	0.000	0.000	
(ADP180)		33V-ATP ORBITER B202C202M1F1W2V3R2	0.000	0.000	5.000
(ADP170)		33V-ATP ORBITER B232C202M1F1W2V3R2	0.000	0.000	6.000
(ADP172)		33V-ATP ORBITER B232C202M1F1W2V3R2	0.000	0.000	7.000

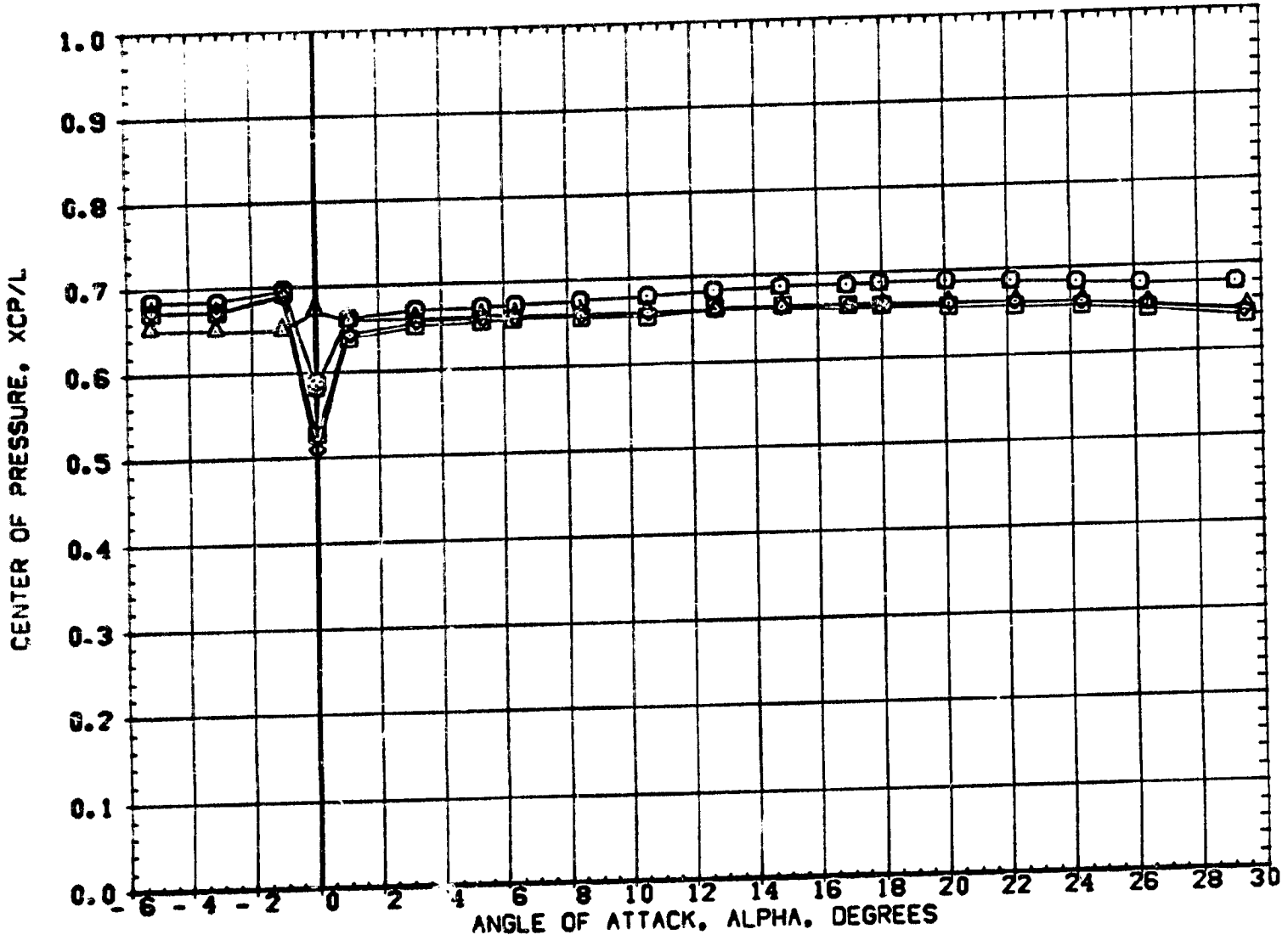


FIG. 63 EFFECT OF FUSELAGE STRAKE

(A)MACH = 0.26

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	BETA	BEFLAP	STRAKE
(ADF084)	○	3SV-ATP ORBITER B2C2D2M1F1W2V3R2	0.000	0.000	
(ADF168)	△	3SV-ATP ORBITER B2D2C2D2M1F1W2V3R2	0.000	0.000	5.000
(ADF170)	◇	3SV-ATP ORBITER B2D2C2D2M1F1W2V3R2	0.000	0.000	6.000
(ADF172)	□	3SV-ATP ORBITER B2D2C2D2M1F1W2V3R2	0.000	0.000	7.000

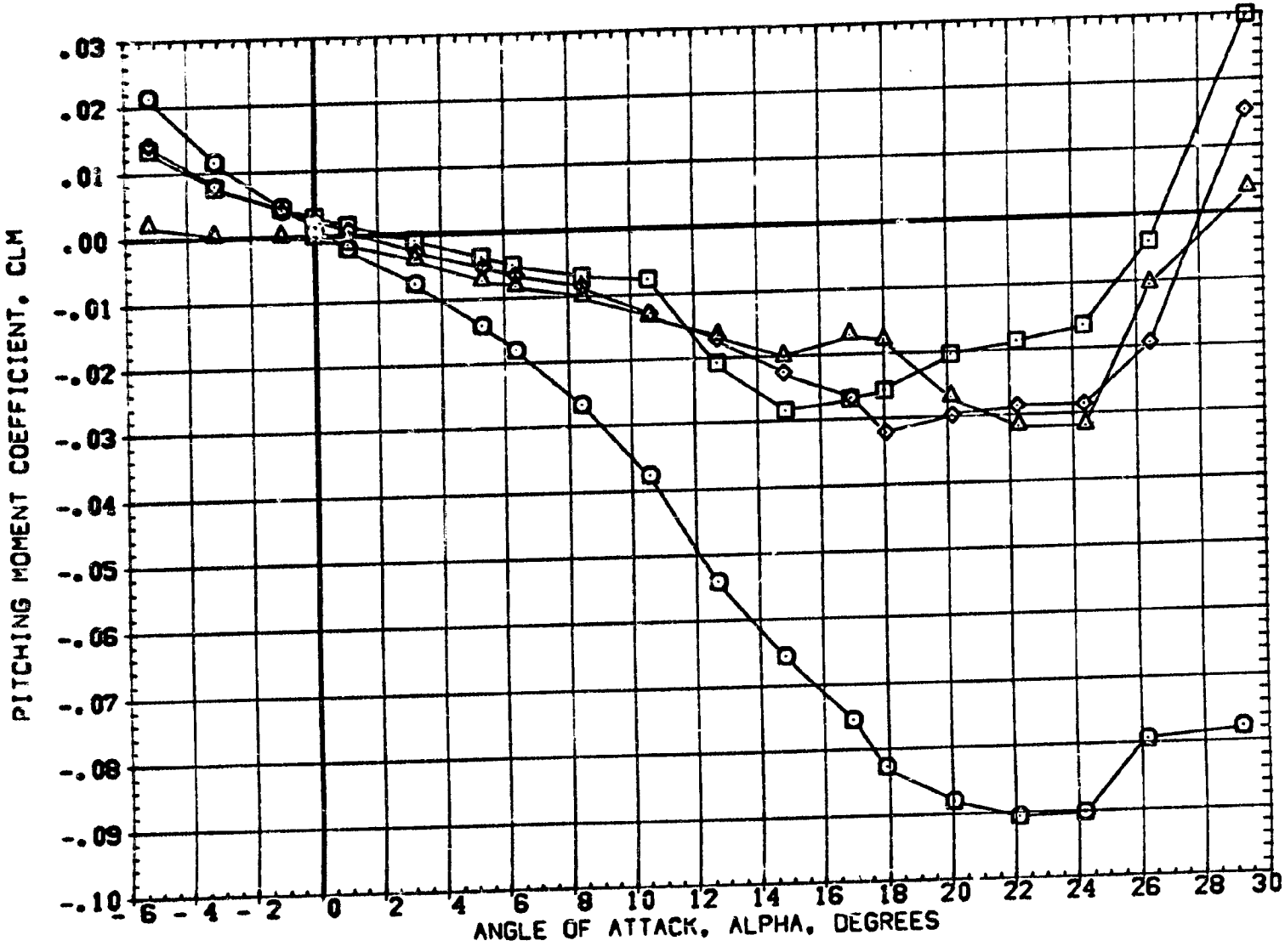


FIG. 63 EFFECT OF FUSELAGE STRAKE

(A)MACH = 0.26

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	BETA	BEFLAP	STRAKE
(BDF169)		SSV-ATP ORBITER B202C2D2M1F1W2V3K2	0.000	0.000	5.000
(BDF168)		SSV-ATP ORBITER B202C2D2M1F1W2V3K2	5.000	0.000	5.000
(BDF170)		SSV-ATP ORBITER B202C2D2M1F1W2V3K2	0.000	0.000	6.000
(BDF171)		SSV-ATP ORBITER B202C2D2M1F1W2V3K2	5.000	0.000	6.000
(BDF172)		SSV-ATP ORBITER B202C2D2M1F1W2V3K2	0.000	0.000	7.000
(BDF173)		SSV-ATP ORBITER B202C2D2M1F1W2V3K2	5.000	0.000	7.000

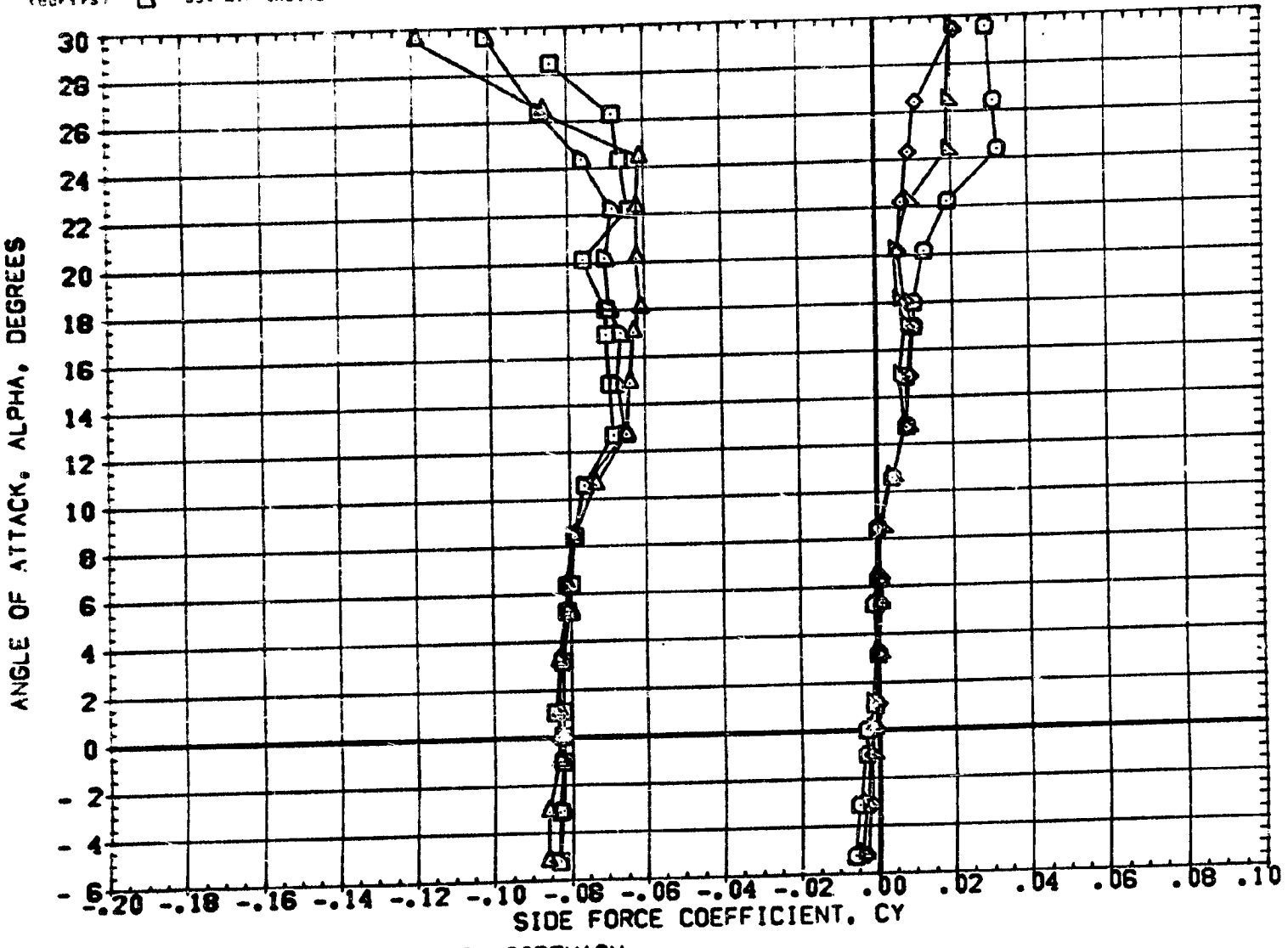


FIG. 64 EFFECT OF STRAKE ON SIDEWASH

(A)MACH = 0.26

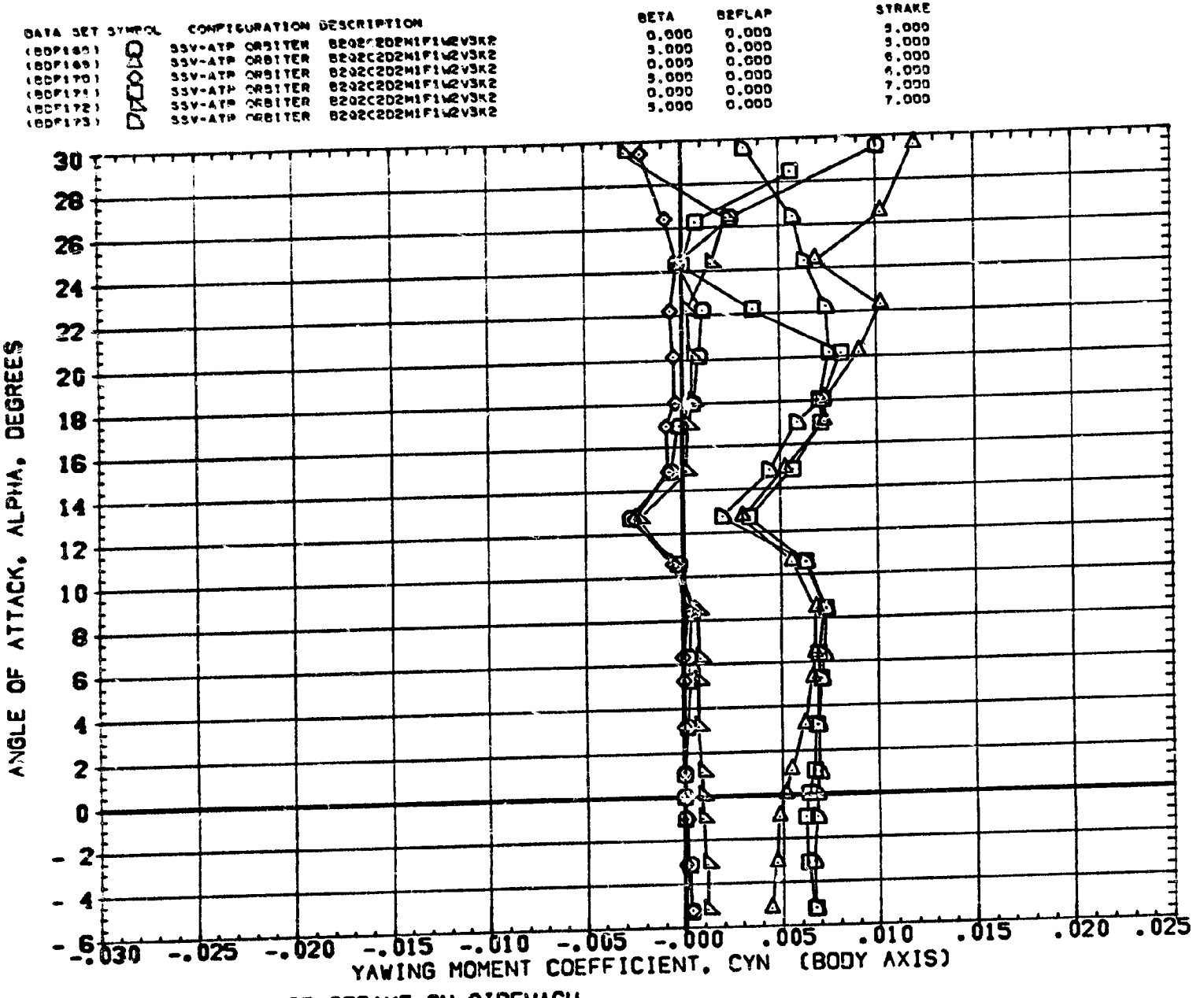


FIG. 64 EFFECT OF STRAKE ON SIDEWASH

(A)MACH = 0.26

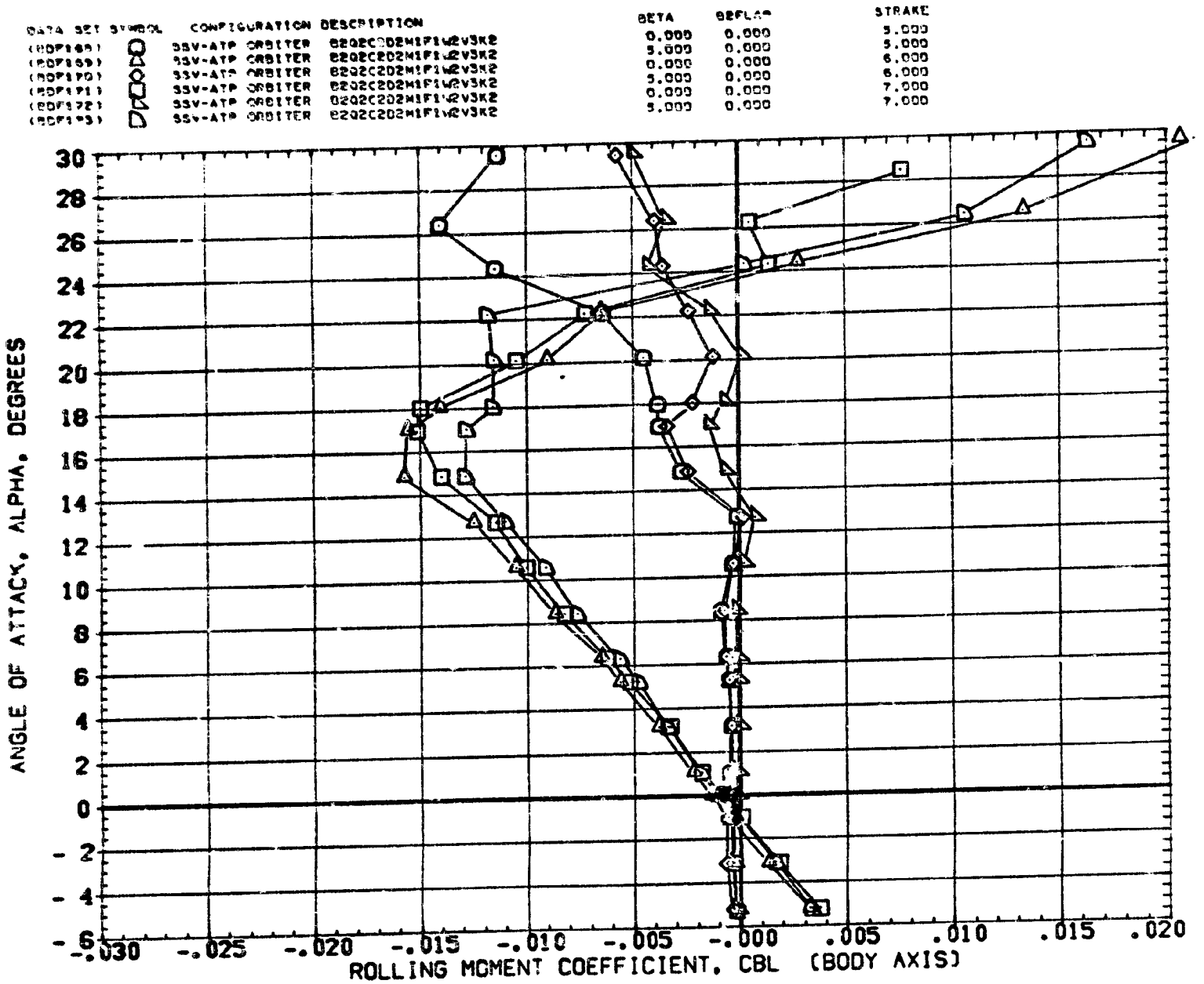


FIG. 64 EFFECT OF STRAKE ON SIDEWASH

(A)MACH = 0.26

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(ADF064)	○	SSV-ATP ORBITER B2C2D2M1F1W2V3K2
(ADF178)	△	SSV-ATP ORBITER B2C2D2M1F1W12V3K2
(ADF190)	◇	SSV-ATP ORBITER B2C2D2M1F1W13V3K2

MACH	BETA	B2FLAP
0.260	0.000	0.000
0.260	0.000	0.000
0.165	0.000	0.000

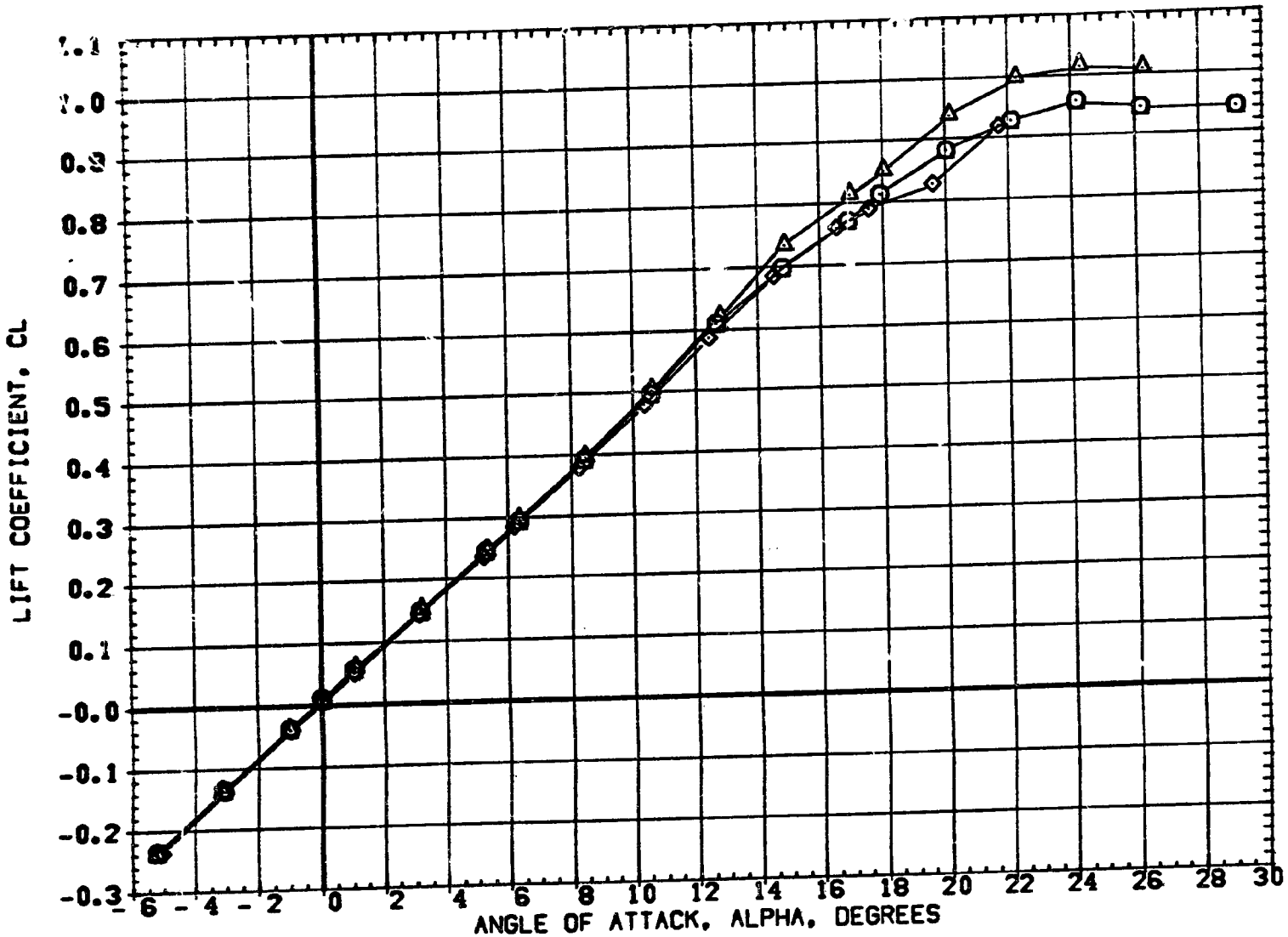


FIG. 65 EFFECT OF WING GLOVE GEOMETRY

(A)MACH = 0.26

REPRODUCIBILITY OF THE ORIGINAL PAGE IS POOR

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	MACH	BETA	B2FLAP
(ADF084)	○	SSV-ATP ORBITER B2C2D2H1F1W2V3K2	0.260	0.000	0.000
(ADF178)	△	SSV-ATP ORBITER B2C2D2H1F1W12V3K2	0.260	0.000	0.000
(ADF169)	◇	SSV-ATP ORBITER B2C2D2H1F1W13V3K2	0.165	0.000	0.000

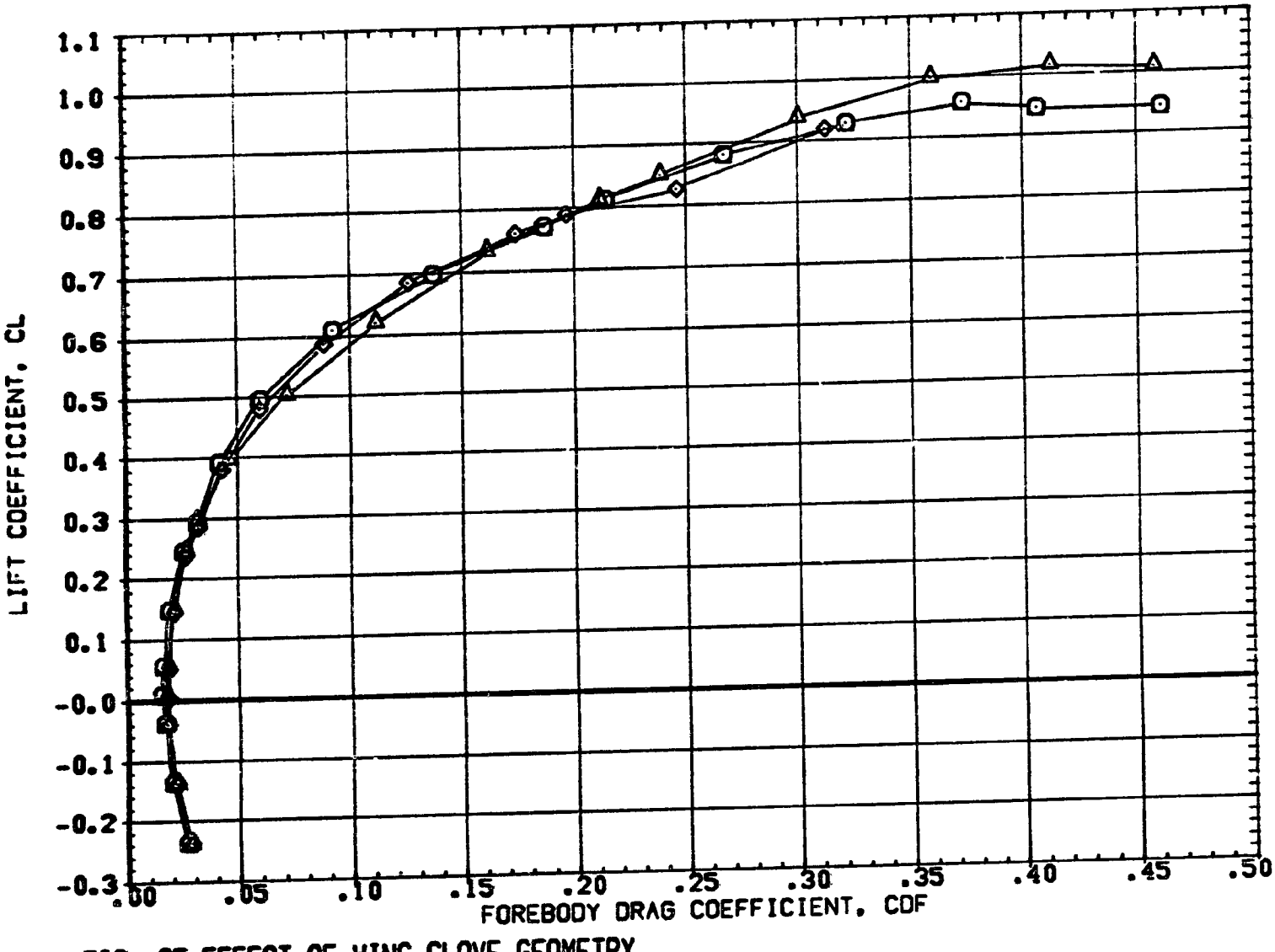


FIG. 65 EFFECT OF WING GLOVE GEOMETRY

(A)MACH = 0.26

REPRODUCIBILITY OF THE ORIGINAL PAGE IS POOR

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	MACH	BETA	B2FLAP
(AD7064)	○	SSV-ATP ORBITER B2C2D2H1F1W2V3K2	0.260	0.000	0.000
(AD7178)	△	SSV-ATP ORBITER B2C2D2H1F1W12V3K2	0.260	0.000	0.000
(AD7198)	◇	SSV-ATP ORBITER B2C2D2H1F1W13V3K2	0.165	0.000	0.000

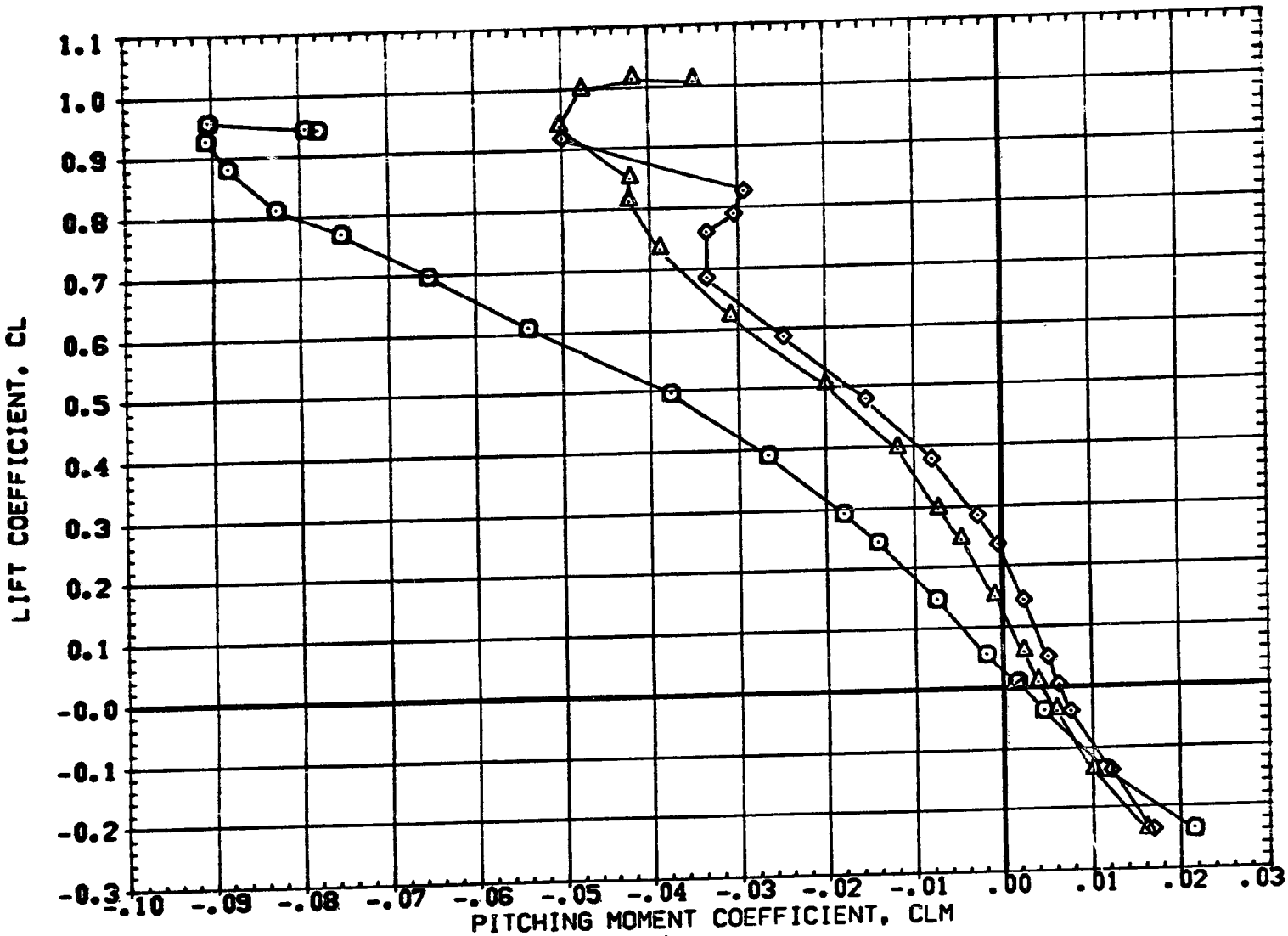


FIG. 65 EFFECT OF WING GLOVE GEOMETRY

(A)MACH = 0.26

REPRODUCIBILITY OF THE ORIGINAL PAGE IS POOR

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(ADP084)	○	SSV-ATP ORBITER B2C2D2M1F1W2V3K2
(ADP178)	△	SSV-ATP ORBITER B2C2D2M1F1W12V3K2
(ADP180)	◇	SSV-ATP ORBITER B2C2D2M1F1W13V3K2

MACH	BETA	BEFLAP
0.260	0.000	0.000
0.260	0.000	0.000
0.165	0.000	0.000



FIG. 65 EFFECT OF WING GLOVE GEOMETRY

(A)MACH = 0.26

REPRODUCIBILITY OF THE ORIGINAL PAGE IS POOR

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(ADF064)	○	SSV-ATP ORBITER B2C2D2M1F1W2V3R2
(ADF178)	△	SSV-ATP ORBITER B2C2D2M1F1W12V3R2
(ADF180)	◇	SSV-ATP ORBITER B2C2D2M1F1W13V3R2

MACH	BETA	B2FLAP
0.260	0.000	0.000
0.260	0.000	0.000
0.165	0.000	0.000

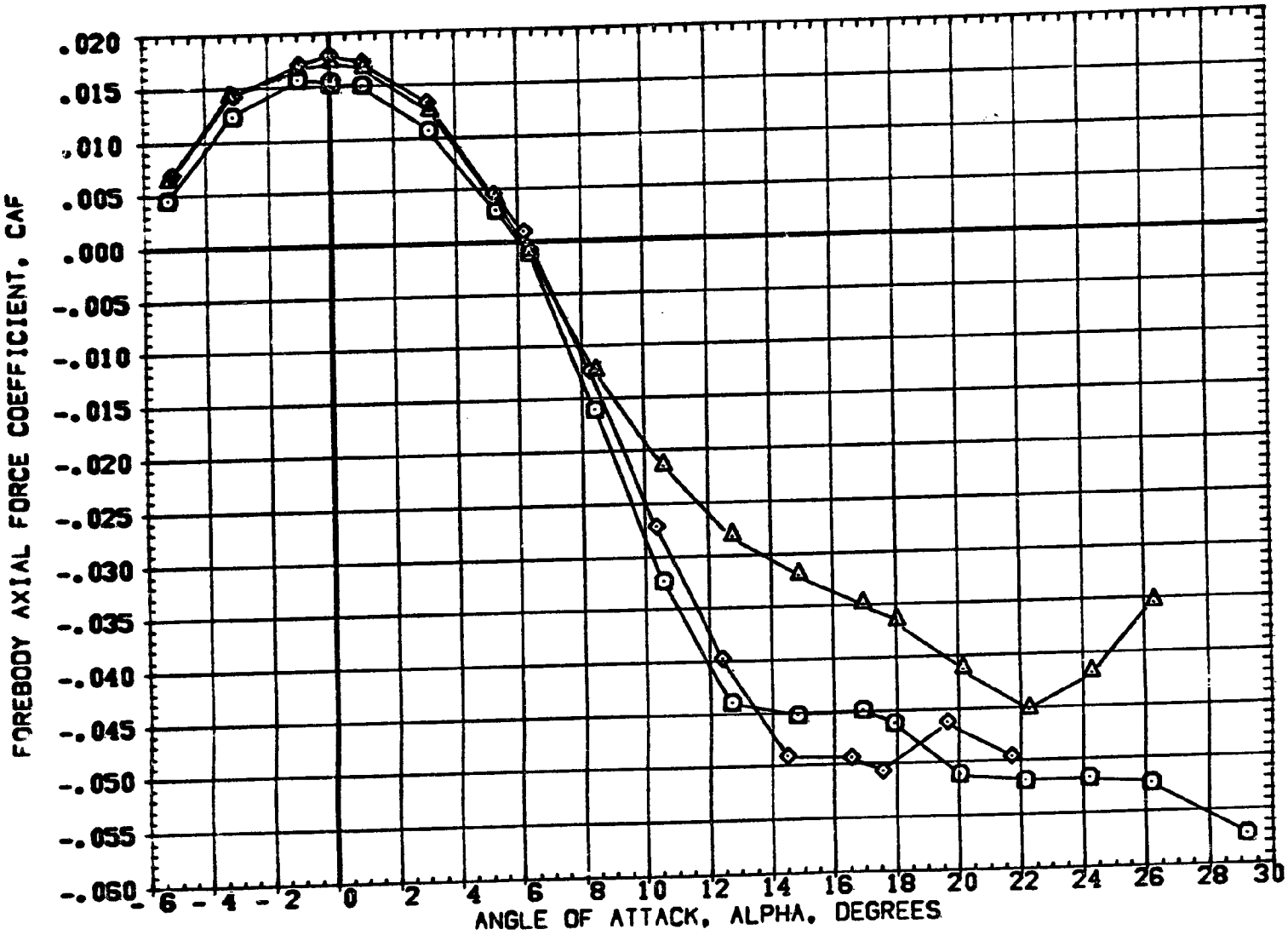


FIG. 65 EFFECT OF WING GLOVE GEOMETRY

(A)MACH = 0.26

REPRODUCIBILITY OF THE ORIGINAL PAGE IS POOR

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(ADF084)	○	SSV-ATP ORBITER B2C2D2M1F1W2V3R2
(ADF175)	△	SSV-ATP ORBITER B2C2D2M1F1W12V3R2
(ADF180)	◇	SSV-ATP ORBITER B2C2D2M1F1W13V3R2

MACH	BETA	B2FLAP
0.260	0.000	0.000
0.260	0.000	0.000
0.165	0.000	0.000

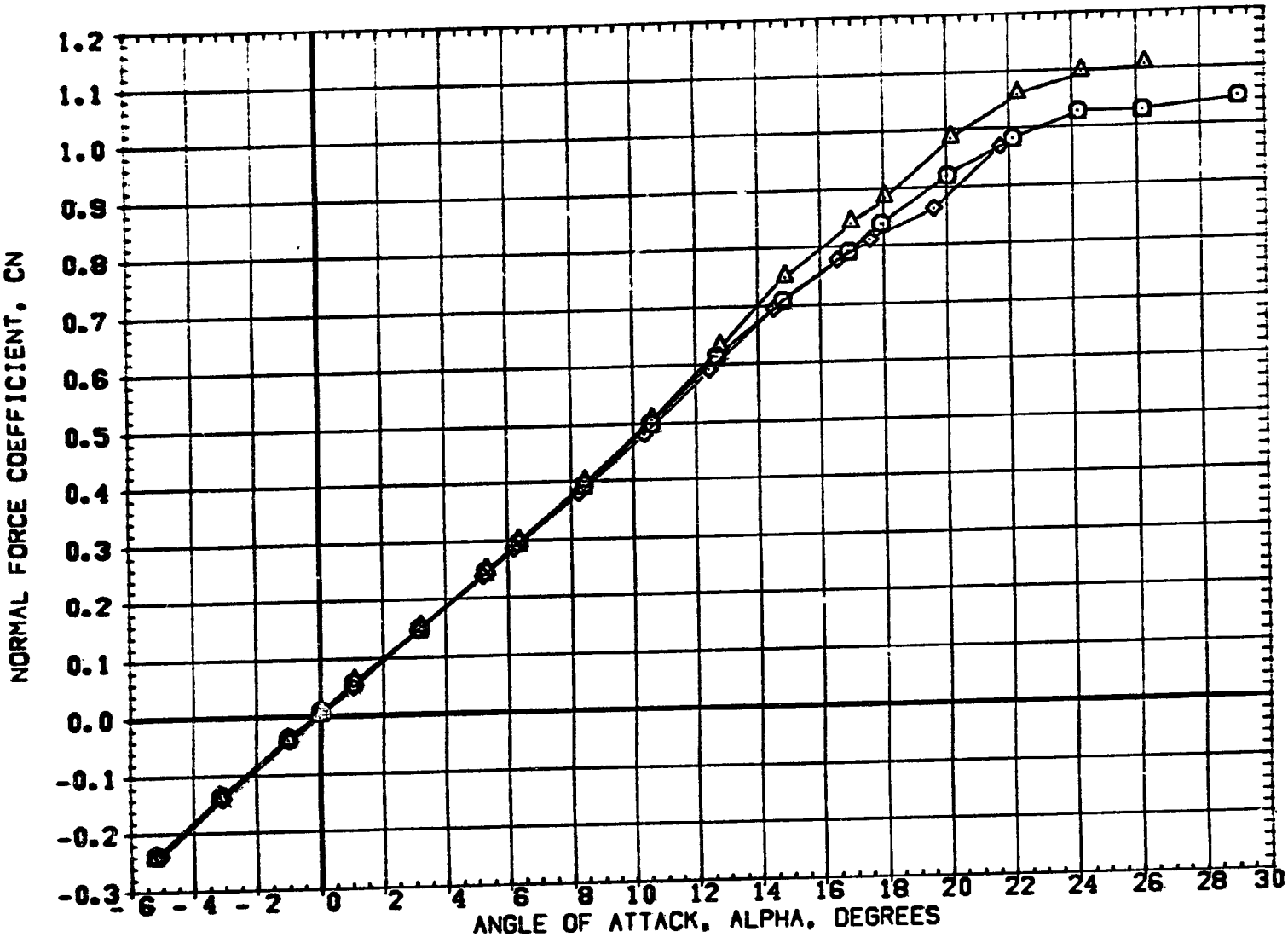


FIG. 65 EFFECT OF WING GLOVE GEOMETRY

(A)MACH = 0.26

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	MACH	BETA	B2FLAP
(ADP064)	○	SSV-ATP ORBITER B2C2D2N1F1W2V3R2	0.260	0.000	0.000
(ADP178)	△	SSV-ATP ORBITER B2C2D2N1F1W12V3R2	0.260	0.000	0.000
(ADP180)	◇	SSV-ATP ORBITER B2C2D2N1F1W19V3R2	0.165	0.000	0.000

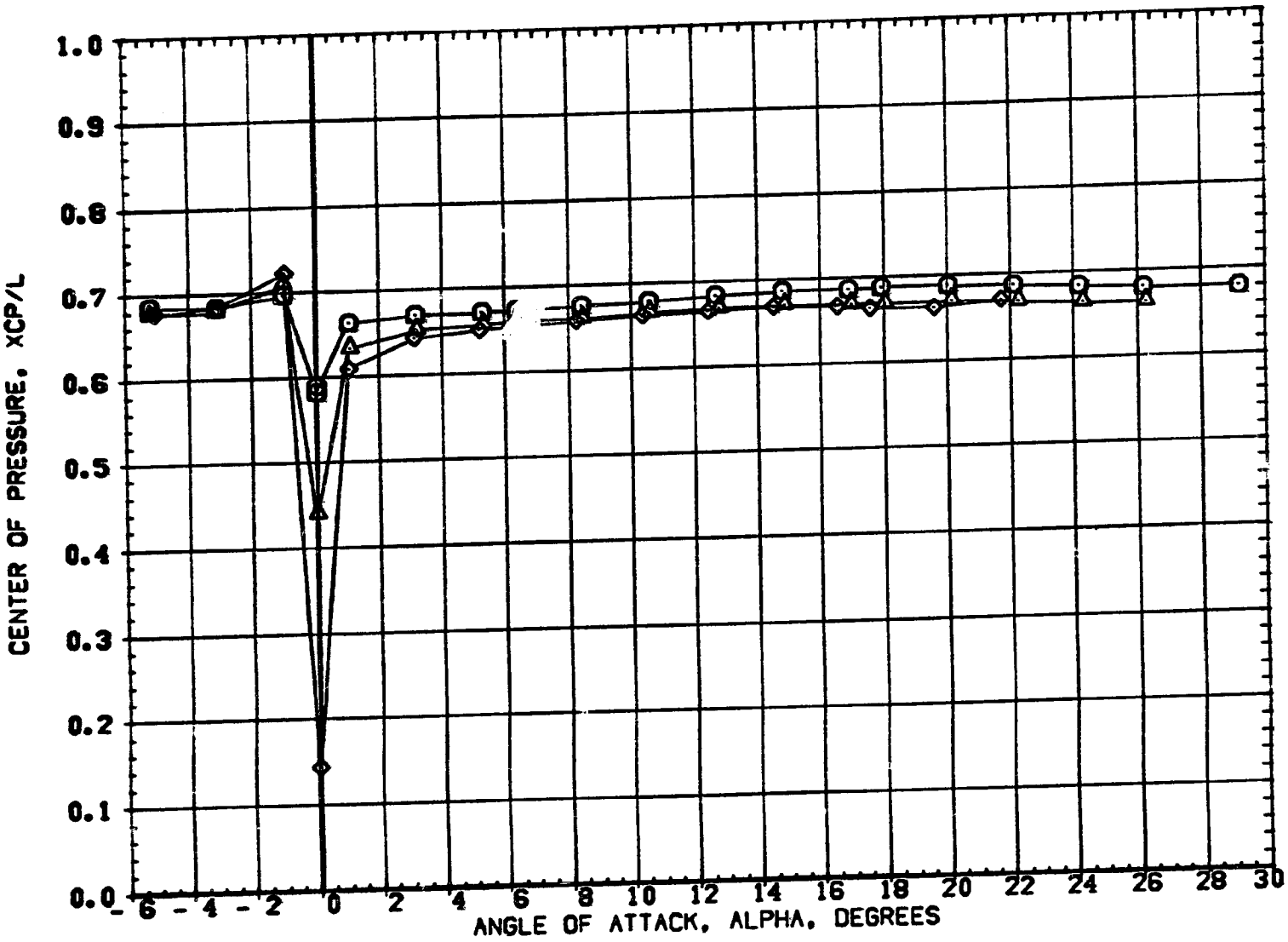


FIG. 65 EFFECT OF WING GLOVE GEOMETRY

(A)MACH = 0.26

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	MACH	BETA	B2FLAP
(ADFD64)	○	SSV-ATP ORBITER B2EC2D2H1F1W2V3R2	0.260	0.000	0.000
(ADF178)	△	SSV-ATP ORBITER B2EC2D2H1F1W12V3R2	0.260	0.000	0.000
(ADF180)	◇	SSV-ATP ORBITER B2EC2D2H1F1W13V3R2	0.165	0.000	0.000

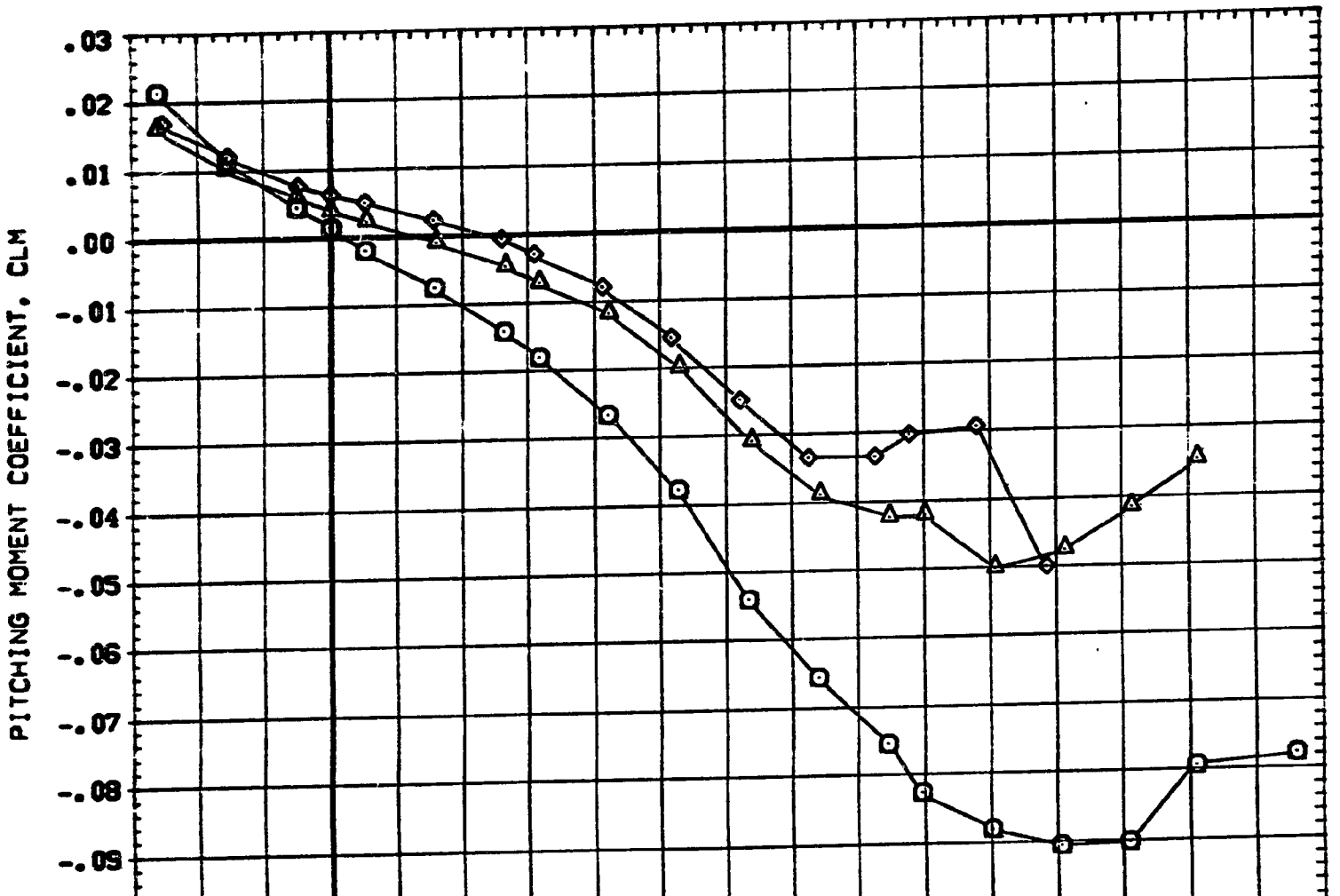


FIG. 65 EFFECT OF WING GLOVE GEOMETRY

(A)MACH = 0.26

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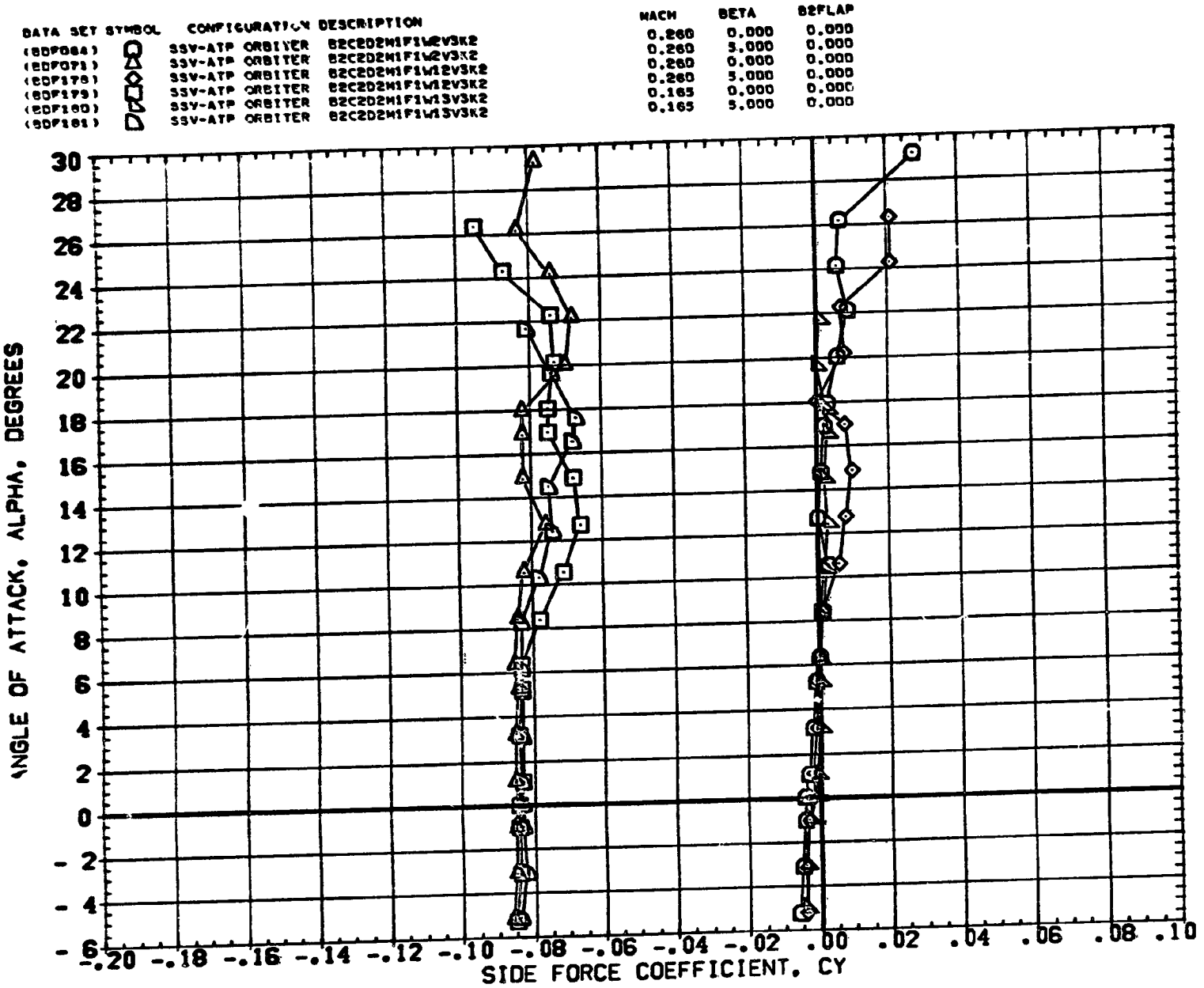


FIG. 66 EFFECT OF WING GLOVE GEOMETRY ON SIDEWASH

(A)MACH = 0.26

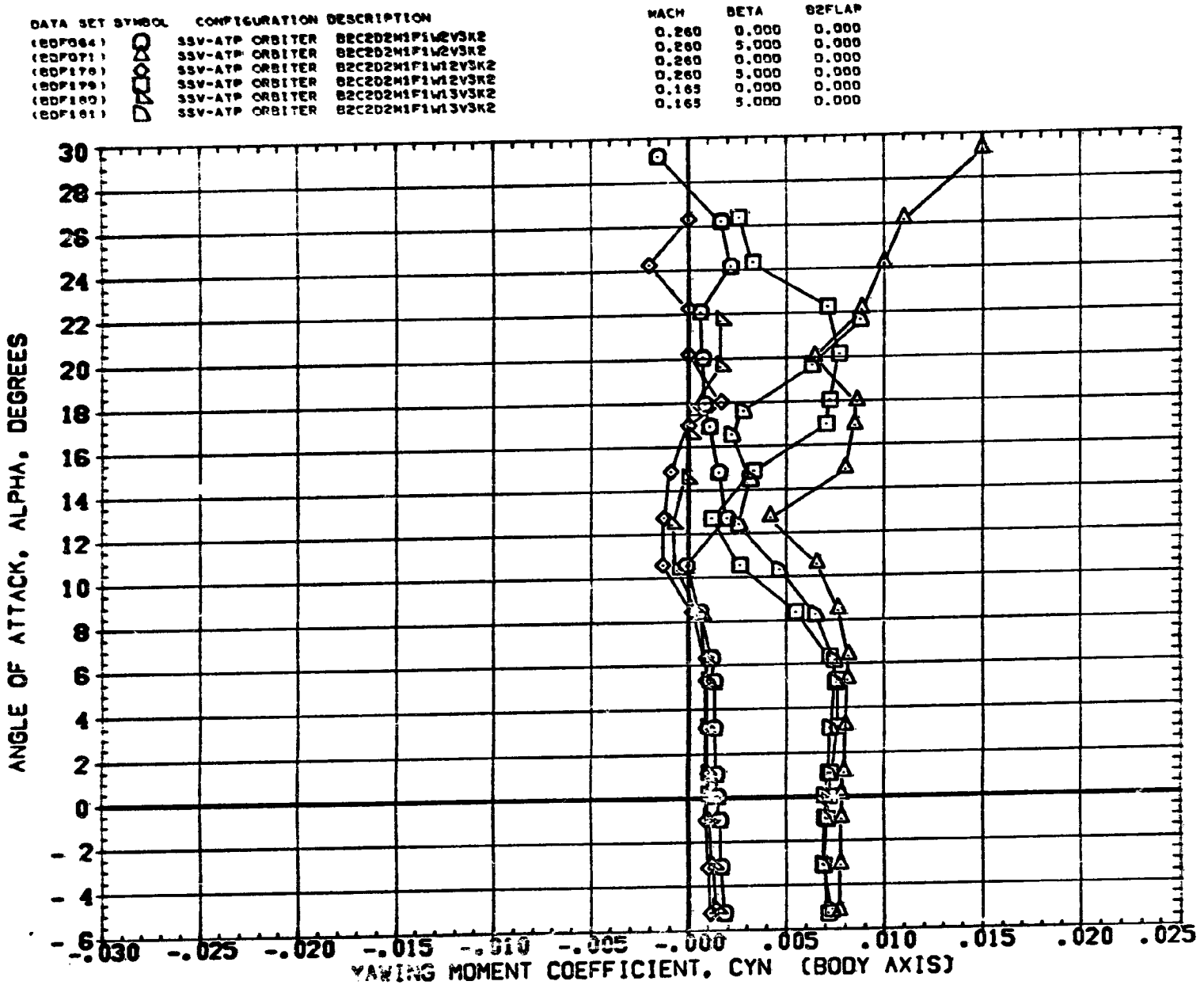


FIG. 65 EFFECT OF WING GLOVE GEOMETRY ON SIDEWASH

(A)MACH = 0.26

REPRODUCIBILITY OF THE ORIGINAL PAGE IS POOR.

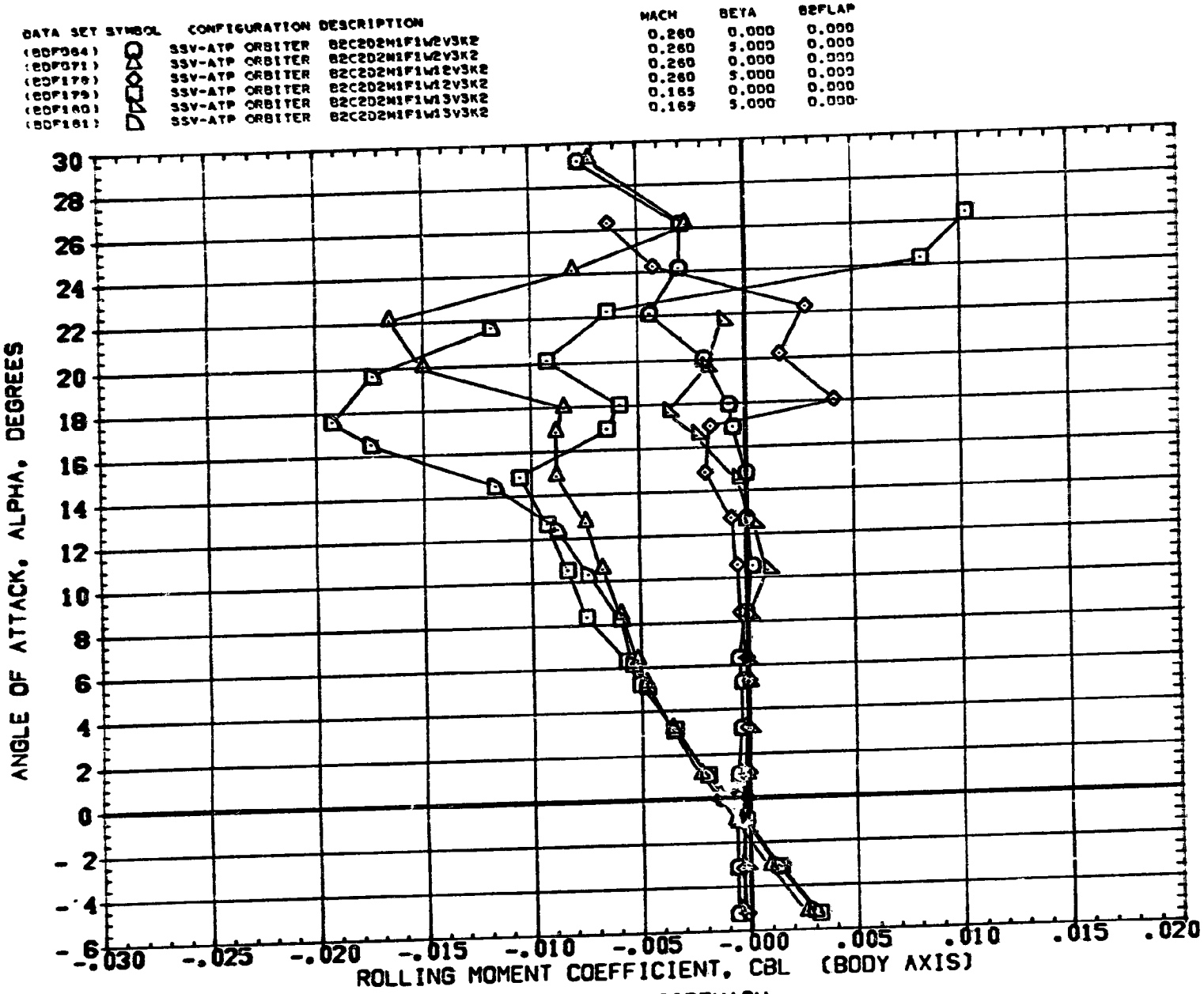


FIG. 66 EFFECT OF WING GLOVE GEOMETRY ON SIDEWASH

REPRODUCIBILITY OF THE ORIGINAL PAGE IS POOR.

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	BETA	B2FLAP	CANARD
(ADF122)	○	SSV-ATP ORBITER B2C2D2M1F1W33V3	0.000	0.000	
(ADF126)	△	SSV-ATP ORBITER B2N1C2D2M1F1W33V3	0.000	0.000	0.000
(ADF127)	◇	SSV-ATP ORBITER B2N1C2D2M1F1W33V3	0.000	0.000	20.000
(ADF128)	□	SSV-ATP ORBITER B2N1C2D2M1F1W33V3	0.000	0.000	30.000

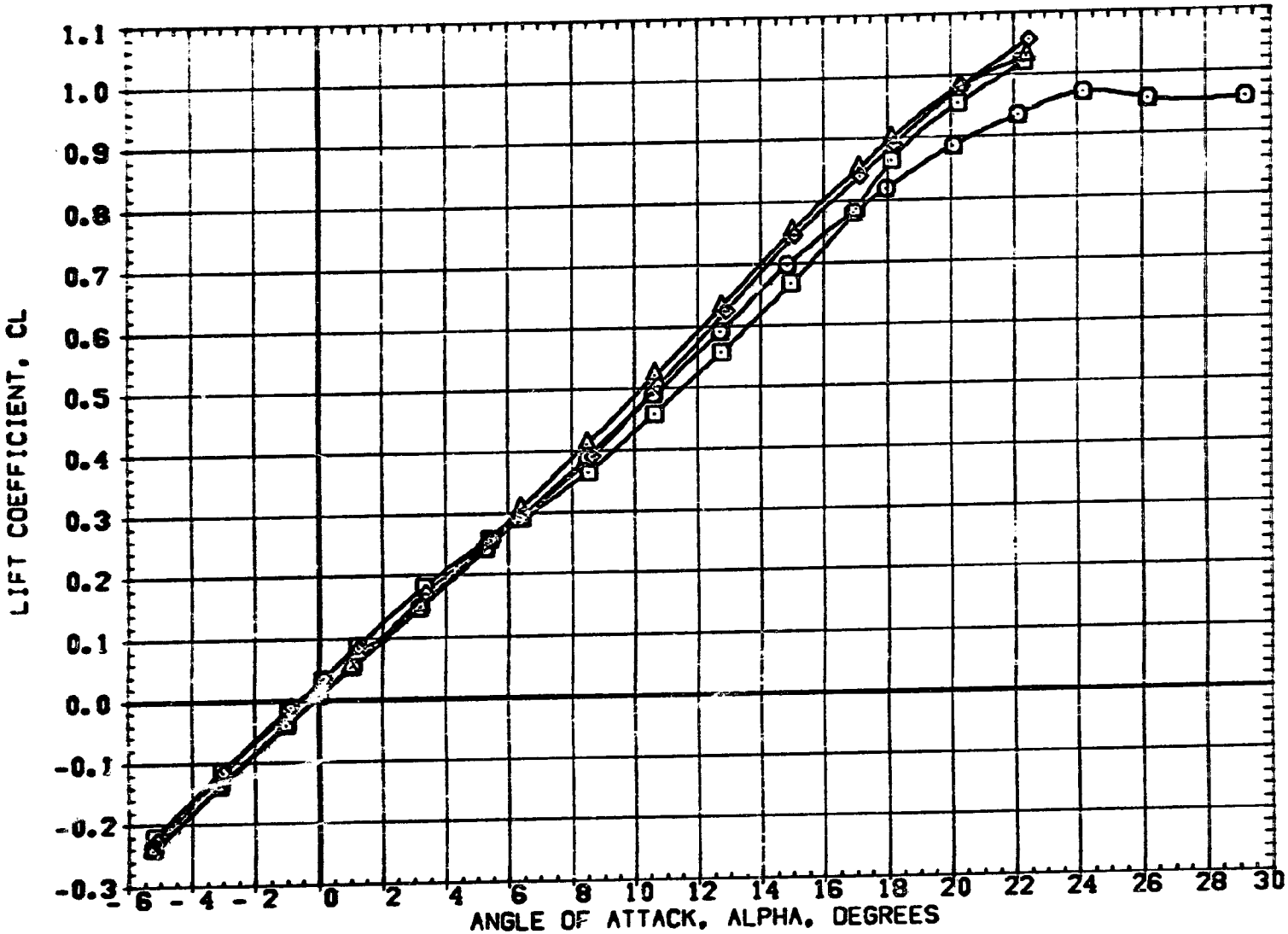


FIG. 67 EFFECT OF CANARD

(A)MACH = 0.26

REPRODUCIBILITY OF THE ORIGINAL PAGE IS POOR.

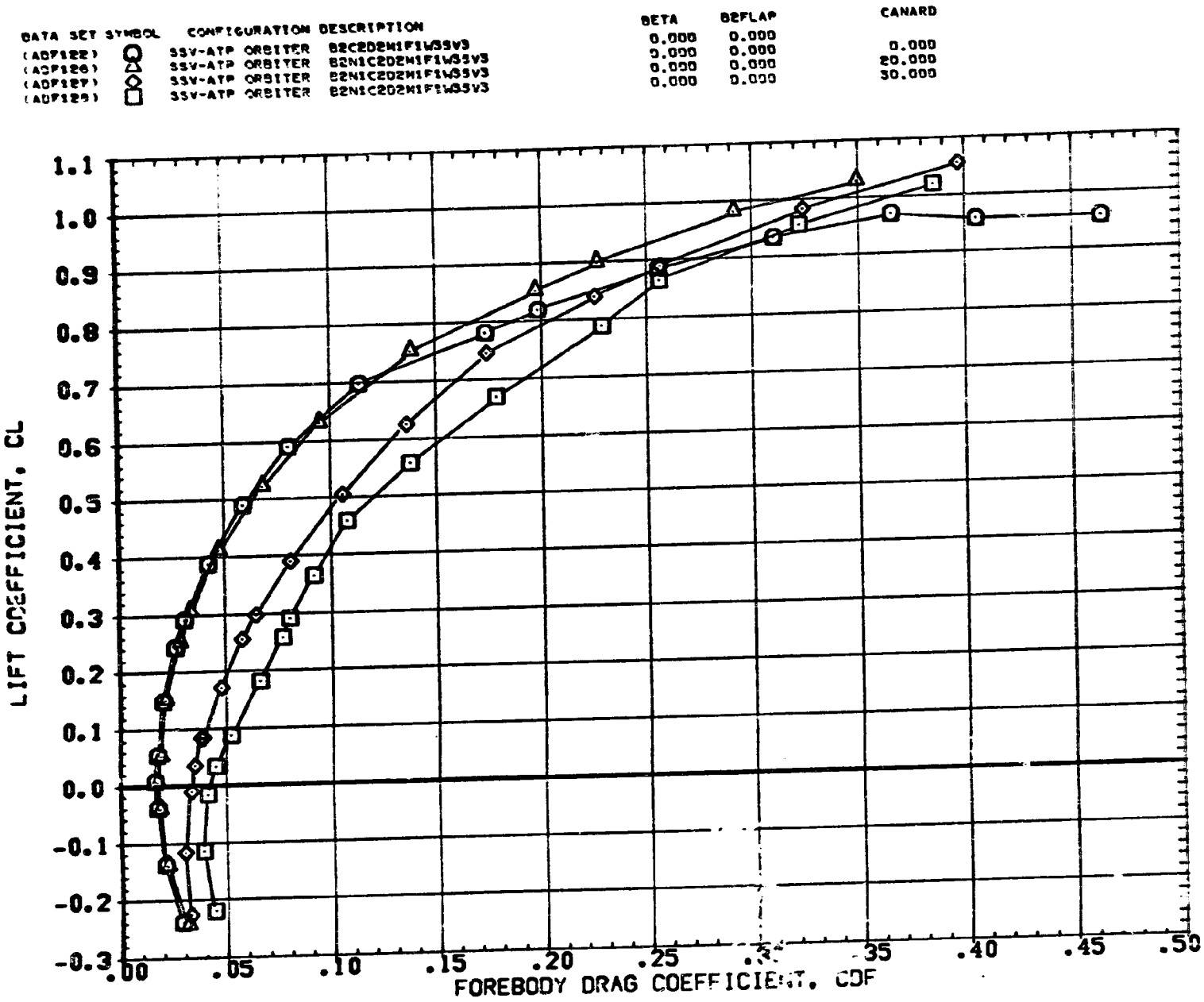


FIG. 67 EFFECT OF CANARD

(A)MACH = 0.26

REPRODUCIBILITY OF THE ORIGINAL PAGE IS POOR.

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	BETA	B2FLAP	CANARD
(ADF122)	○	SSV-ATP ORBITER B2C2D2M1F1W3SV3	0.000	0.000	
(ADF126)	△	SSV-ATP ORBITER B2N1C2D2M1F1W3SV3	0.000	0.000	0.000
(ADF127)	◇	SSV-ATP ORBITER B2N1C2D2M1F1W3SV3	0.000	0.000	20.000
(ADF128)	□	SSV-ATP ORBITER B2N1C2D2M1F1W3SV3	0.000	0.000	30.000

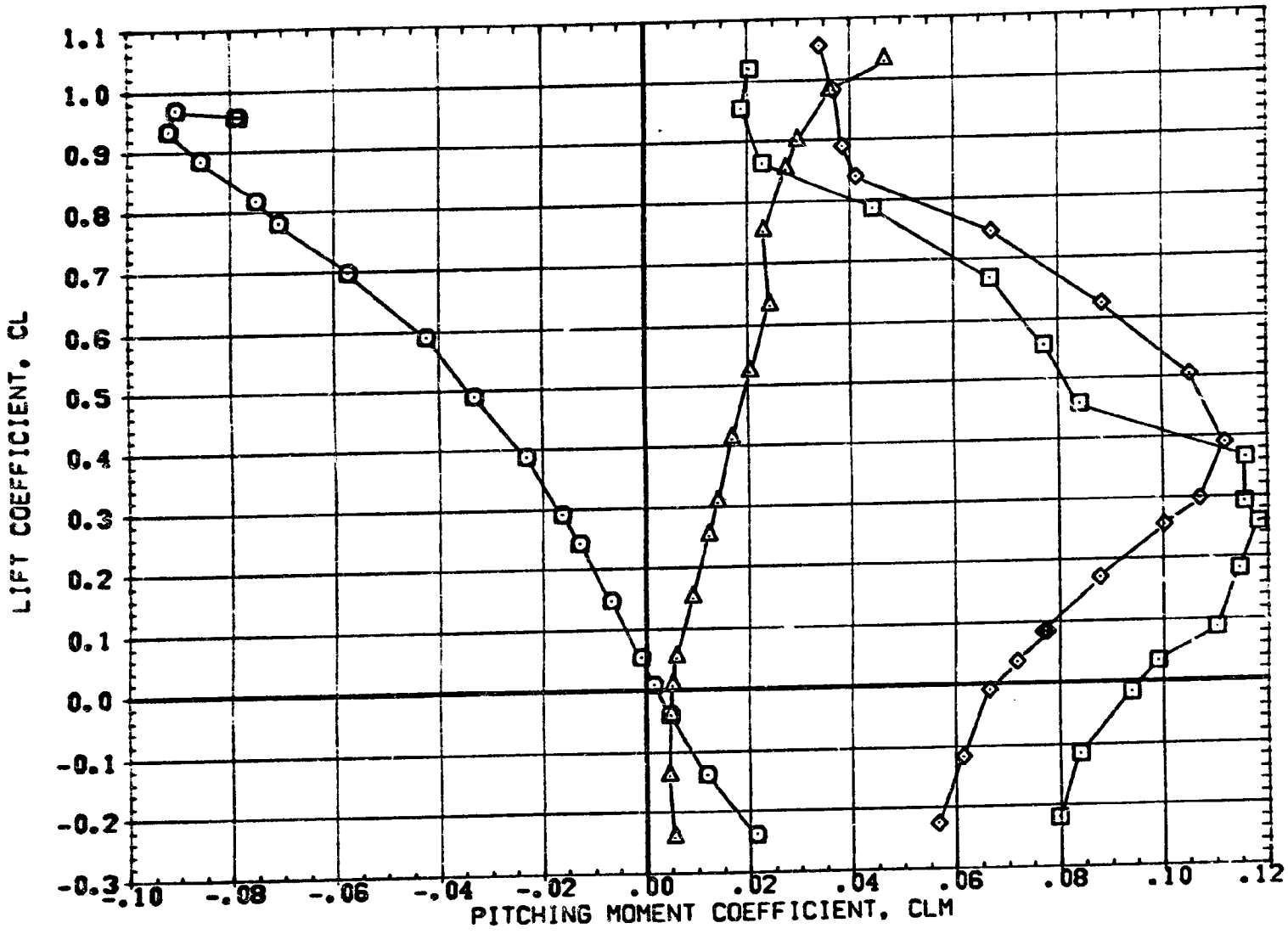


FIG. 67 EFFECT OF CANARD

(A)MACH = 0.26

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DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	BETA	B2FLAP	CANARD
(ADF122)	○	SSV-ATP ORBITER B2C2D2H1F1W3SV3	0.000	0.000	
(ADF126)	△	SSV-ATP ORBITER B2N1C2D2H1F1W3SV3	0.000	0.000	0.000
(ADF127)	◇	SSV-ATP ORBITER B2N1C2D2H1F1W3SV3	0.000	0.000	20.000
(ADF125)	□	SSV-ATP ORBITER B2N1C2D2H1F1W3SV3	0.000	0.000	30.000

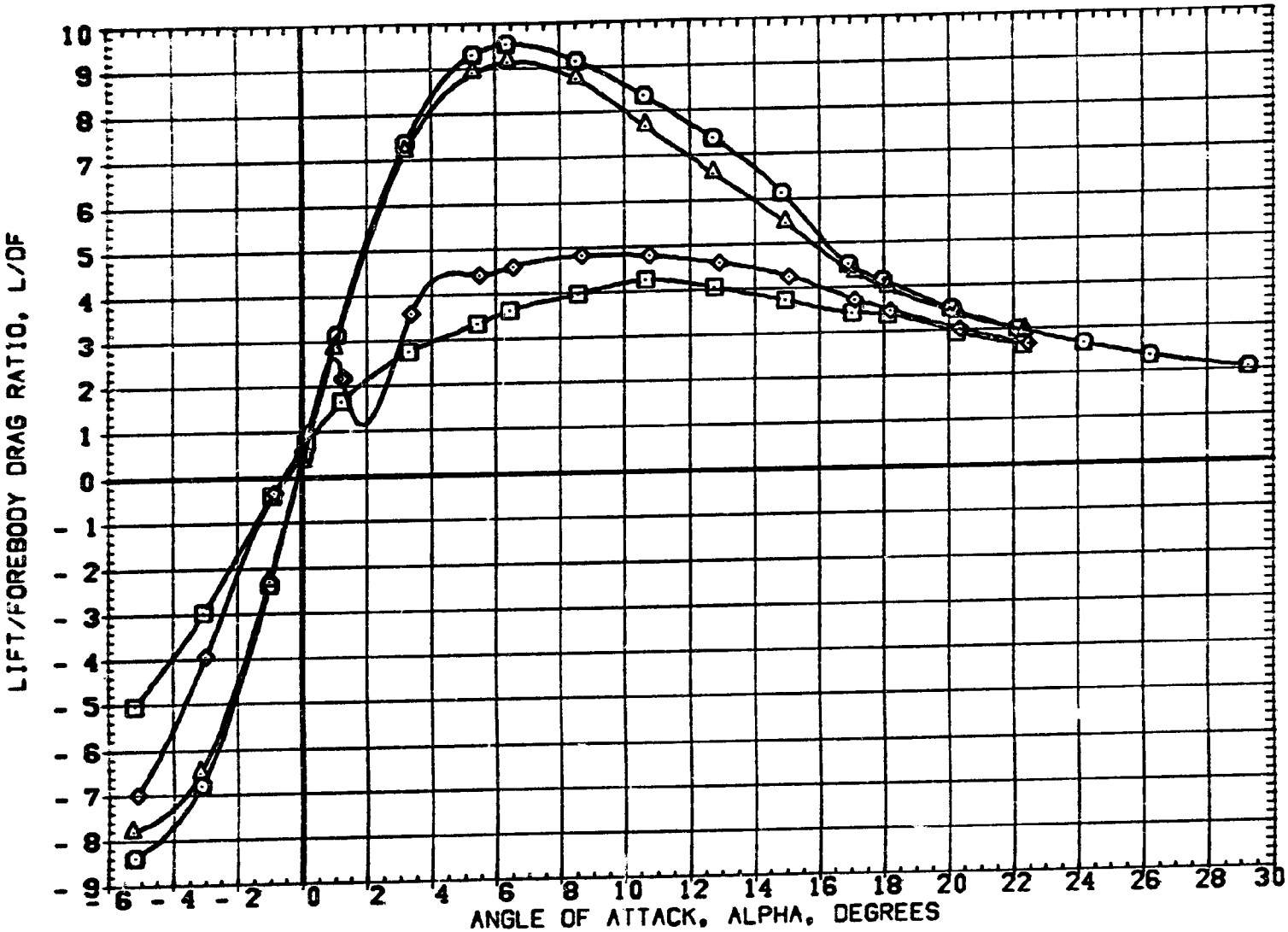


FIG. 67 EFFECT OF CANARD

(A)MACH = 0.26

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	BETA	B2FLAP	CANARD
(ADF122)		SSV-ATP ORBITER B2C2D2M1F1W3SV3	0.000	0.000	
(ADF126)		SSV-ATP ORBITER B2N1C2D2M1F1W3SV3	0.000	0.000	0.000
(ADF127)		SSV-ATP ORBITER B2N1C2D2M1F1W3SV3	0.000	0.000	20.000
(ADF129)		SSV-ATP ORBITER B2N1C2D2M1F1W3SV3	0.000	0.000	30.000

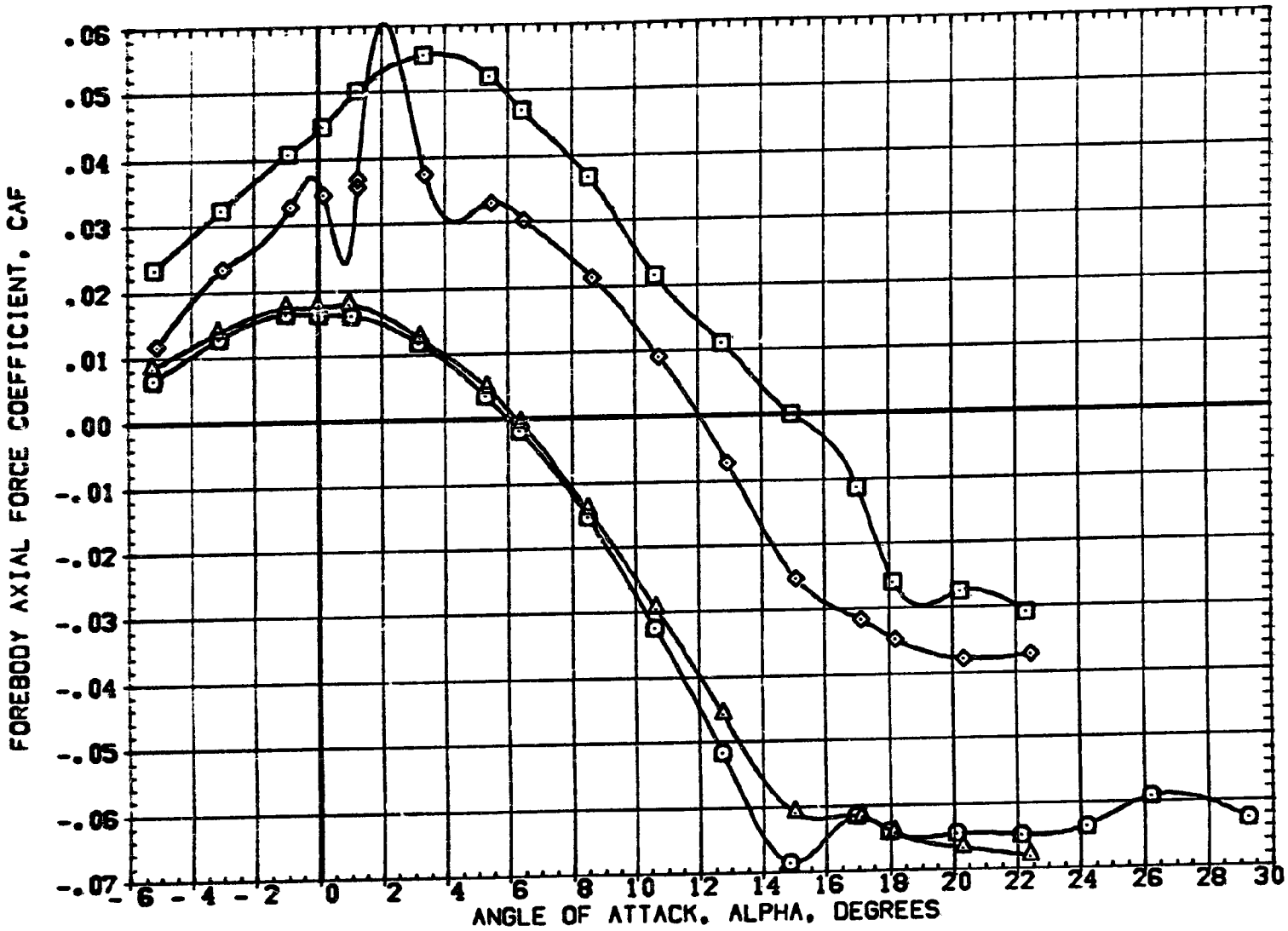


FIG. 67 EFFECT OF CANARD

(A)MACH = 0.26

REPRODUCIBILITY OF THE ORIGINAL PAGE IS POOR

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	BETA	BEFLAP	CANARD
(ADF122)	○	SSV-ATP ORBITER B2C2D2M1F1W35V3	0.000	0.000	
(ADF126)	△	SSV-ATP ORBITER B2N1C2D2M1F1W35V3	0.000	0.000	0.000
(ADF127)	◇	SSV-ATP ORBITER B2N1C2D2M1F1W35V3	0.000	0.000	20.000
(ADF129)	□	SSV-ATP ORBITER B2N1C2D2M1F1W35V3	0.000	0.000	30.000

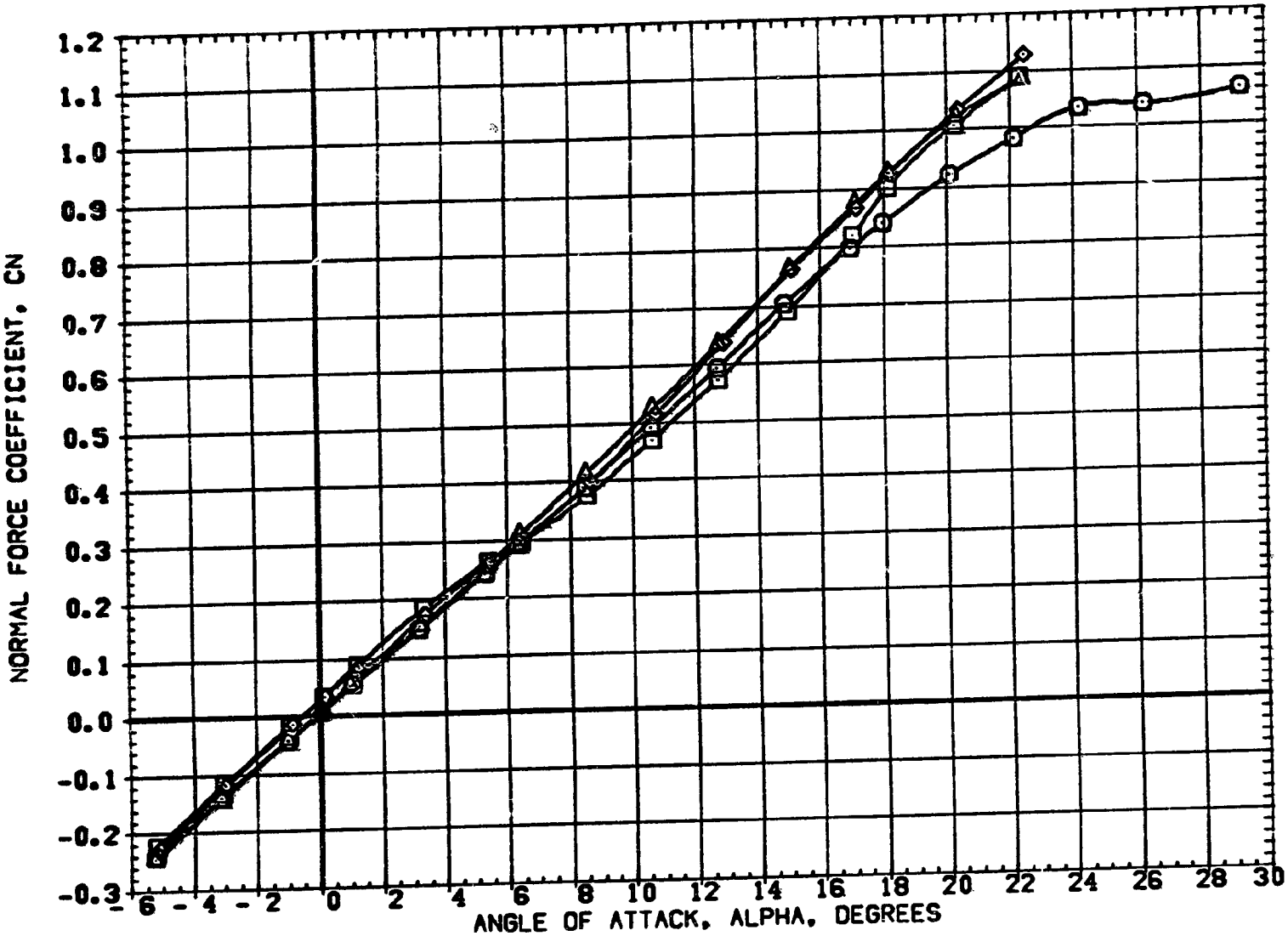


FIG. 67 EFFECT OF CANARD

(A)MACH = 0.26

REPRODUCIBILITY OF THE ORIGINAL PAGE IS POOR

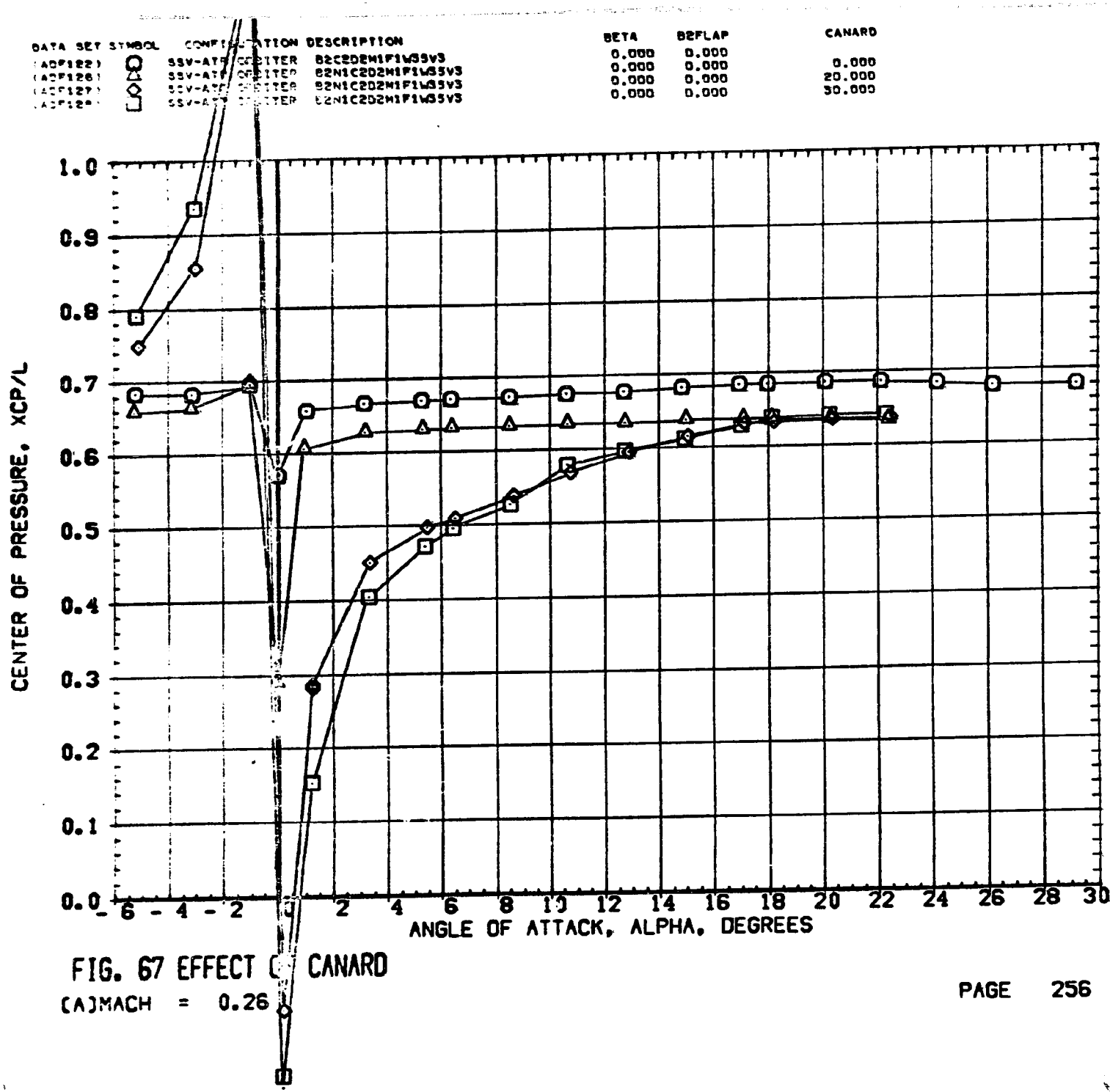


FIG. 67 EFFECT OF CANARD

(A)MACH = 0.26

REPRODUCIBILITY OF THE ORIGINAL PAGE IS POOR

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	BETA	B2FLAP	CANARD
(ADF122)	□	SSV-ATP ORBITER B2C2D2M1F1WS5V3	0.000	0.000	
(ADF126)	△	SSV-ATP ORBITER B2N1C2D2M1F1WS5V3	0.000	0.000	0.000
(ADF127)	◇	SSV-ATP ORBITER B2N1C2D2M1F1WS5V3	0.000	0.000	20.000
(ADF128)	○	SSV-ATP ORBITER B2N1C2D2M1F1WS5V3	0.000	0.000	30.000

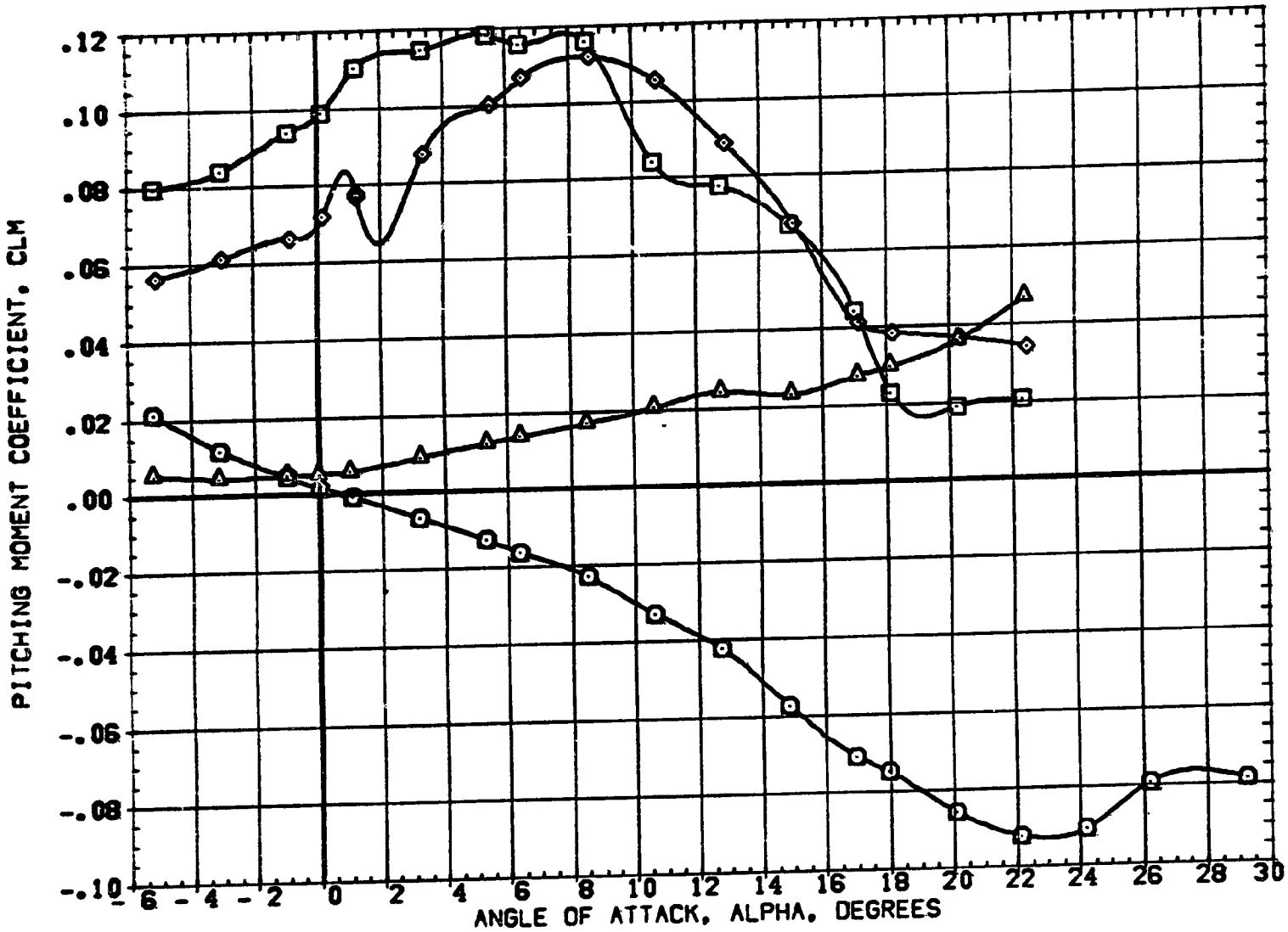


FIG. 67 EFFECT OF CANARD

(A)MACH = 0.26

APPENDIX

TABULATED SOURCE DATA

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Plotted data listings are available on request from Data Management System.

REPRODUCIBILITY OF THE ORIGINAL PAGE IS POOR.

89V-ATP ORBITER 82 (ADF001) (16 FEB 73)

REFERENCE DATA

SREF = 5.2816 SQ.FT. XMRP = 43.0596 INCHES
LREF = 21.2826 INCHES YMRP = .0000 INCHES
BREF = 40.8119 INCHES ZMRP = 16.2000 INCHES
SCALE = .0405 SCALE

PARAMETRIC DATA

BETA = .000

RUN NO. 1/ 0 RN/L = 1.84 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CL	CDF	CLM	CN	CAF	CLN	CBL	CY	XCP/L	L/DF
.260	-5.040	-.02450	-.01620	-.02200	-.02300	-.01630	.00010	.00000	.00000	.27160	1.50600
.260	-3.010	-.01440	.00510	-.01520	-.01460	.00440	.00000	.00000	.00000	.23760	-2.78600
.260	-1.000	-.00430	.00350	-.00610	-.00440	.00340	.00000	.00000	.00000	-.08160	-1.22300
.260	.000	.00090	.00320	-.00540	.00090	.00320	.00020	.00000	.00000	2.97290	.28600
.260	.990	.00460	.00190	-.00160	.00470	.00180	.00040	.00000	.00000	.78760	2.47100
.260	3.010	.01390	.00320	.00530	.01410	.00250	.00010	.00000	.00100	.50140	4.27100
.260	5.040	.02320	.00460	.01240	.02350	.00260	.00010	.00000	.00000	.44010	4.96300
.260	6.050	.02800	.00550	.01650	.02750	.00260	.00020	.00000	.00000	.41390	4.84900
.260	8.070	.03580	.00670	.02330	.03640	.00160	.00010	.00000	.00100	.39660	5.33000
.260	10.100	.04550	.00870	.03000	.04630	.00080	.00010	.00000	.00100	.38570	5.20600
.260	12.110	.05520	.01060	.03670	.05650	-.00100	.00000	.00000	.00100	.38150	5.10400
.260	14.130	.06530	.01400	.04260	.06670	-.00250	.00000	.00000	.00100	.38600	4.65400
.260	16.120	.07520	.01780	.04870	.07720	-.00370	.00010	.00000	.00200	.40020	4.22600
.260	17.140	.08060	.01940	.05200	.08290	-.00520	.00000	.00000	.00200	.40170	4.15200
.260	19.170	.09220	.02390	.05790	.09490	-.00760	.00000	-.00010	.00300	.40850	3.84700
.260	21.200	.10310	.02870	.06430	.10650	-.01050	.00000	-.00010	.00100	.41110	3.59300
.260	23.210	.11320	.03430	.06990	.11760	-.01300	.00010	-.00010	.00100	.41460	3.29300
.260	25.230	.12360	.04060	.07560	.12910	-.01590	.00010	-.00020	.00200	.41830	3.04500
.260	26.240	.13690	.05090	.08360	.14680	-.02090	.00030	-.00010	.00200	.42360	2.72700
	GRADIENT	.00488	-.00036	.00339	.00475	-.00056	.00003	.00000	.00015	.06281	1.23963

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REPRODUCIBILITY OF THE ORIGINAL PAGE IS POOR.

SSV-ATP ORBITER B2 (ADF002) (16 FEB 73)

REFERENCE DATA

SREF = 5.2616 SQ.FT. XMRP = 43.0598 INCHES
LREF = 21.2628 INCHES YMRP = .0000 INCHES
BREF = 40.8119 INCHES ZMRP = 16.2000 INCHES
SCALE = .0405 SCALE

PARAMETRIC DATA

ALPHA = .000

RUN NO. 2/ 0 RN/L = 1.84 GRADIENT INTERVAL = -3.00/ 3.00

MACH	BETA	CL	CDF	CLM	CN	CAF	CLN	CSL	CY	XCP/L	L/DF
.260	-3.030	-.00250	.00460	-.00440	-.00250	.00460	.01060	-.00120	.02400	-.04560	-.55800
.260	-2.020	-.00260	.00550	-.00420	-.00260	.00550	.00630	-.00070	.01500	.02340	-.50300
.260	-1.000	-.00070	.00440	-.00450	-.00070	.00440	.00200	-.00030	.00600	-1.77410	-.16600
.260	-.020	.00040	.00230	-.00320	.00040	.00230	.00020	.00000	.00000	-.76340	.17600
.260	.980	-.00020	.00220	-.00460	-.00020	.00220	-.00160	.00020	-.00400	-3.27670	-.10200
.260	3.000	-.00070	.00190	-.00440	-.00070	.00190	-.00590	.00060	-.01300	-1.59580	-.38600
.260	4.990	-.00150	.00230	-.00430	-.00150	.00230	-.01020	.00110	-.02200	-.47260	-.65300
.260	7.010	-.00010	.00210	-.00430	-.00010	.00210	-.01460	.00160	-.03100	-3.27670	-.05400
.260	9.020	.00050	.00110	-.00440	.00050	.00110	-.01660	.00220	-.04100	-1.05440	.51100
.260	11.030	.00240	-.00050	-.00470	.00240	-.00050	-.02260	.00270	-.05200	1.41420	-4.32900
	GRADIENT	.00008	-.00040	.00001	.00008	-.00040	-.00204	.00022	-.00462	-.05329	-.03657

SSV-ATP ORBITER B2 (ADF003) (16 FEB 73)

REFERENCE DATA

SREF = 5.2616 SQ.FT. XMRP = 43.0598 INCHES
LREF = 21.2628 INCHES YMRP = .0000 INCHES
BREF = 40.8119 INCHES ZMRP = 16.2000 INCHES
SCALE = .0405 SCALE

PARAMETRIC DATA

ALPHA = 5.000

RUN NO. 3/ 0 RN/L = 1.84 GRADIENT INTERVAL = -3.00/ 3.00

MACH	BETA	CL	CDF	CLM	CN	CAF	CLN	CSL	CY	XCP/L	L/DF
.260	-3.030	.02160	.00390	.01270	.02220	.00390	.01000	-.00050	.02700	.42410	5.69900
.260	-2.020	.02210	.00600	.01270	.02260	.00410	.00590	-.00030	.01700	.42660	5.63600
.260	-1.010	.02190	.00460	.01260	.02220	.00270	.00190	-.00010	.00700	.42570	4.72000
.260	.000	.02310	.00460	.01230	.02340	.00260	.00010	.00000	.00100	.44150	4.94500
.260	1.000	.02290	.00430	.01270	.02290	.00230	-.00160	.00010	-.00400	.43040	5.17400
.260	3.030	.02290	.00270	.01270	.02310	.00070	-.00570	.00020	-.01400	.43100	8.33400
.260	5.020	.02220	.00260	.01270	.02230	.00060	-.00970	.00040	-.02400	.42520	8.38500
.260	7.010	.02480	.00190	.01270	.02490	-.00010	-.01390	.00080	-.03500	.44320	12.16700
.260	9.000	.02670	.00080	.01220	.02670	-.00140	-.01790	.00090	-.04600	.46690	31.43100
.260	11.040	.02910	-.00030	.01210	.02900	-.00250	-.02200	.00120	-.05800	.48440	-32.76700
	GRADIENT	.00019	-.00031	.00000	.00011	-.00053	-.00190	.00008	-.00516	.00066	.72200

REPRODUCIBILITY OF THE ORIGINAL PAGE IS POOR.

SSV-ATP ORBITER 82 (ADF004) (16 FEB 73)

REFERENCE DATA

SREF = 9.2616 SQ.FT. XMRP = 43.0396 INCHES
LREF = 21.2626 INCHES YMRP = .0000 INCHES
BREF = 40.6119 INCHES ZMRP = 16.2000 INCHES
SCALE = .0405 SCALE

PARAMETRIC DATA

ALPHA = 10.000

RUN NO. 4/ 0 RN/L = 1.84 GRADIENT INTERVAL = -3.00/ 5.00

MACH	BETA	CL	CDF	CLM	CN	CAF	CLN	CSL	CY	XCP/L	L/DF
.260	-5.030	.04730	.00690	.02940	.04810	.00050	.00980	.00000	.02600	.40830	5.27400
.260	-3.010	.04560	.00660	.03000	.04670	.00050	.00360	.00000	.01700	.39550	5.28300
.260	-1.000	.04560	.00900	.03000	.04650	.00080	.00200	.00000	.00700	.39430	5.04300
.260	.000	.04560	.00670	.03000	.04640	.00060	.00000	.00000	-.00100	.39440	5.20600
.260	1.010	.04560	.00780	.03000	.04640	-.00020	-.00160	-.00010	-.00300	.39410	5.61900
.260	3.000	.04560	.00730	.03000	.04650	-.00060	-.00370	-.00010	-.01300	.39490	6.27300
.260	5.010	.04750	.00710	.02950	.04800	-.00120	-.00650	-.00020	-.02500	.40840	6.63000
.260	7.020	.05000	.00690	.02860	.05040	-.00190	-.71350	-.00010	-.03700	.42560	7.18400
.260	9.040	.05320	.00550	.02770	.05330	-.00360	-.01740	.00000	-.05100	.44420	9.53700
.260	11.050	.05660	.00520	.02710	.05680	-.00480	-.02130	.00000	-.06500	.46090	10.88900
	GRADIENT	.00002	-.00025	.00000	-.00004	-.00025	-.00191	-.00002	-.00499	-.00010	.18662

SSV-ATP ORBITER 82 (ADF005) (16 FEB 73)

REFERENCE DATA

SREF = 9.2616 SQ.FT. XMRP = 43.0396 INCHES
LREF = 21.2626 INCHES YMRP = .0000 INCHES
BREF = 40.6119 INCHES ZMRP = 16.2000 INCHES
SCALE = .0405 SCALE

PARAMETRIC DATA

ALPHA = 15.000

RUN NO. 5/ 0 RN/L = 1.84 GRADIENT INTERVAL = -3.00/ 5.00

MACH	BETA	CL	CDF	CLM	CN	CAF	CLN	CSL	CY	XCP/L	L/DF
.260	-5.030	.07450	.01610	.04490	.07810	-.00390	.00940	.00050	.03200	.41830	4.62600
.260	-3.030	.07220	.01560	.04560	.07560	-.00330	.00960	.00040	.01900	.40540	4.56600
.260	-1.000	.07090	.01560	.04620	.07280	-.00320	.00190	.00010	.00700	.39830	4.46900
.260	-.010	.07060	.01610	.04570	.07260	-.00280	.00010	.00000	.00200	.40060	4.38700
.260	.970	.07160	.01590	.04600	.07350	-.00330	-.00180	-.00020	-.00300	.40220	4.49200
.260	2.990	.07130	.01530	.04560	.07280	-.00380	-.00370	-.00060	-.01400	.40180	4.65900
.260	5.010	.07320	.01520	.04490	.07480	-.00440	-.00940	-.00060	-.02700	.41190	4.80700
.260	7.020	.07550	.01430	.04390	.07670	-.00580	-.01320	-.00100	-.04100	.42350	5.16200
.260	9.040	.07790	.01430	.04310	.07860	-.00650	-.01680	-.00100	-.05700	.43560	5.43000
.260	11.040	.08370	.01430	.04200	.08450	-.00800	-.02050	-.00110	-.07400	.45300	5.82900
	GRADIENT	-.00008	-.00007	-.00001	-.00011	-.00009	-.00188	-.00018	-.00344	-.00039	.01402

REPRODUCIBILITY OF THE ORIGINAL PAGE IS POOR.

SSV-ATP ORBITER B2 (ADF006) (16 FEB 73)

REFERENCE DATA

SREF = 5.2616 SQ.FT. XMRP = 43.0396 INCHES
LREF = 21.2826 INCHES YMRP = .0000 INCHES
BREF = 40.8119 INCHES ZMRP = 16.2000 INCHES
SCALE = .0405 SCALE

PARAMETRIC DATA

ALPHA = 10.000

RUN NO. 6/ 0 RN/L = 1.64 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	CL	CDF	CLM	CN	CAF	CLN	CSL	CY	XCP/L	L/DF
.260	-5.030	.09060	.02240	.05380	.09320	-.00690	.00910	.00060	.05400	.42160	4.04500
.260	-3.020	.08620	.02200	.05470	.09070	-.00650	.00560	.00060	.02000	.41120	4.00900
.260	-.990	.08770	.02200	.05510	.09020	-.00640	.00180	.00010	.01800	.40850	3.98700
.260	.010	.08770	.02190	.05480	.09020	-.00640	.00000	-.00010	.00300	.40940	3.99200
.260	.980	.08750	.02190	.05470	.08990	-.00670	-.00170	-.00040	-.00300	.40900	4.03300
.260	3.020	.08760	.02180	.05470	.09000	-.00650	-.00550	-.00080	-.01500	.40940	4.01600
.260	5.020	.08940	.02190	.05410	.09170	-.00730	-.00920	-.00120	-.02900	.41830	4.14200
.260	7.020	.09210	.02140	.05290	.09420	-.00830	-.01270	-.00130	-.04400	.42750	4.30300
.260	9.040	.09420	.02100	.05200	.09610	-.00930	-.01610	-.00140	-.06200	.43580	4.46900
.260	11.060	.09930	.02090	.05100	.10090	-.01100	-.01940	-.00150	-.08200	.45000	4.74400
	GRADIENT	-.00010	-.00005	-.00002	-.00012	-.00001	-.00165	-.00025	-.00377	-.00023	.00455

SSV-ATP ORBITER B2 (ADF007) (16 FEB 73)

REFERENCE DATA

SREF = 5.2616 SQ.FT. XMRP = 43.0396 INCHES
LREF = 21.2826 INCHES YMRP = .0000 INCHES
BREF = 40.8119 INCHES ZMRP = 16.2000 INCHES
SCALE = .0405 SCALE

PARAMETRIC DATA

ALPHA = 20.000

RUN NO. 7/ 0 RN/L = 1.64 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	CL	CDF	CLM	CN	CAF	CLN	CSL	CY	XCP/L	L/DF
.260	-5.040	.10030	.02650	.06000	.10350	-.00960	.00660	.00100	.03500	.41990	3.77600
.260	-3.020	.09780	.02620	.06150	.10090	-.00900	.00530	.00080	.02000	.40870	3.72100
.260	-1.000	.09720	.02690	.06150	.10040	-.00860	.00160	.00010	.00600	.40770	3.68600
.260	.000	.09590	.02590	.06140	.09900	-.00860	.00000	-.00010	.00100	.40440	3.69200
.260	.980	.09720	.02640	.06140	.10030	-.00870	-.00190	-.00040	-.00300	.40770	3.67800
.260	3.020	.09770	.02580	.06110	.10060	-.00940	-.00550	-.00100	-.01500	.40850	3.76500
.260	5.020	.09850	.02610	.06060	.10150	-.00940	-.00910	-.00140	-.02900	.41370	3.76500
.260	7.030	.10160	.02580	.05940	.10430	-.01070	-.01250	-.00150	-.04700	.42470	3.92500
.260	9.020	.10400	.02600	.05840	.10660	-.01140	-.01570	-.00170	-.06600	.43310	3.99900
.260	11.060	.10740	.02970	.05730	.10970	-.01290	-.01880	-.00180	-.08700	.44320	4.17900
	GRADIENT	-.00001	-.00006	-.00008	-.00005	-.00006	-.00160	-.00026	-.00377	.00012	.01007

REPRODUCIBILITY OF THE ORIGINAL PAGE IS POOR.

SSV-ATP ORBITER B2C202 (ADP006) (16 FEB 73)

REFERENCE DATA

SREF = 9.2616 SQ.FT. XMRP = 43.0396 INCHES
LREF = 21.2628 INCHES YMRP = .0000 INCHES
BREF = 40.8119 INCHES ZMRP = 16.2000 INCHES
SCALE = .0405 SCALE

PARAMETRIC DATA

BETA = .000

RUN NO. 6/ 0 RN/L = 1.84 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CL	CDF	CLM	CN	CAF	CLN	CSL	CY	XCP/L	L/DF
.260	-5.030	-.02030	.00700	-.02060	-.02060	.00520	.00000	.00000	.00000	.25660	-2.89100
.260	-3.010	-.01250	.00530	-.01360	-.01280	.00480	.00000	.00000	.00000	.22690	-2.35900
.260	-1.020	-.00270	.00480	-.00740	-.00270	.00480	.00000	.00000	.00000	-.40460	-.55200
.260	.000	.00150	.00370	-.00370	.00150	.00370	.00030	.00000	.00000	1.63360	.40600
.260	1.030	.00650	.00350	-.00020	.00650	.00340	.00020	.00000	.00000	.66430	1.84000
.260	3.030	.01610	.00450	.00690	.01630	.00360	.00020	.00000	.00000	.48210	3.57600
.260	5.020	.02350	.00600	.01370	.02390	.00400	.00010	.00000	.00000	.42250	3.85600
.260	8.010	.02740	.00660	.01740	.02790	.00370	.00010	.00000	.00000	.40340	4.14800
.260	8.050	.03630	.00790	.02430	.03710	.00270	.00010	.00000	.00000	.36970	4.56200
.260	10.050	.04550	.01020	.03090	.04640	.00210	.00010	.00000	.00000	.38580	4.44400
.260	12.090	.05550	.01240	.03790	.05690	.00040	.00000	.00000	.00100	.38900	4.47600
.260	14.100	.06560	.01490	.04390	.06750	-.00150	.00000	.00000	.00100	.39250	4.41200
.260	16.120	.07620	.01690	.04980	.07850	-.00300	.00000	-.00010	.00200	.39890	4.03500
.260	17.180	.08170	.02080	.05300	.08430	-.00420	.00000	.00000	.00200	.40070	3.91700
.260	19.170	.09250	.02530	.05870	.09570	-.00640	.00000	-.00010	.00200	.40700	3.65600
.260	21.200	.10330	.03080	.06450	.10750	-.00860	.00000	-.00020	.00200	.41250	3.34900
.260	23.230	.11460	.03690	.07010	.11980	-.01120	.00000	-.00020	.00300	.41850	3.10300
.260	25.240	.12590	.04360	.07550	.13250	-.01420	.00000	-.00020	.00300	.42500	2.88400
.260	26.270	.14150	.05450	.08270	.15040	-.01690	.00020	-.00010	.00300	.43220	2.59100
	GRADIENT	.00471	-.00018	.00341	.00478	-.00022	.00004	.00000	.00000	.09111	1.00170

REPRODUCIBILITY OF THE ORIGINAL PAGE IS POOR.

SSV-ATP ORBITER B2C2D2 (ADF009) (16 FEB 73)

REFERENCE DATA

SREF = 9.2816 SQ.FT. XMRP = 43.0396 INCHES
LREF = 21.2626 INCHES YMRP = .0000 INCHES
BREF = 40.8119 INCHES ZMRP = 16.2000 INCHES
SCALE = .0405 SCALE

PARAMETRIC DATA

ALPHA = .000

RUN NO. 9/ 0 RN/L = 1.04 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	CL	CDF	CLM	CN	CAF	CLN	CSL	CY	XCP/L	L/DF
.260	-5.020	-.00050	.00360	-.00290	-.00050	.00300	.01240	-.00100	.02700	-1.66230	-.08800
.260	-3.000	.00000	.00620	-.00290	.00000	.00620	.00750	-.00060	.01700	77.03490	.00200
.260	-.970	.00090	.00320	-.00330	.00090	.00320	.00220	-.00020	.00700	2.09970	.17400
.260	.000	.00120	.00430	-.00400	.00120	.00430	.00010	.00000	.00100	1.97200	.27400
.260	1.010	.00090	.00260	-.00330	.00090	.00260	-.00190	.00010	-.00300	2.03410	.32300
.260	3.060	.00050	.00270	-.00310	.00050	.00270	-.00700	.00060	-.01400	3.00630	.19100
.260	5.030	.00070	.00260	-.00260	.00070	.00260	-.01210	.00100	-.02400	2.23680	.26400
.260	7.040	.00050	.00160	-.00290	.00050	.00160	-.01710	.00140	-.03500	2.92060	.23900
.260	9.050	.00130	.00100	-.00320	.00130	.00100	-.02220	.00190	-.04600	1.62690	1.27500
.260	11.060	.00170	.00050	-.00260	.00170	.00050	-.02730	.00240	-.05800	1.28730	3.22700
	GRADIENT	.00007	-.00064	-.00003	.00007	-.00064	-.00255	.00019	-.00521	-11.00062	.03526

SSV-ATP ORBITER B2C2D2 (ADF010) (16 FEB 73)

REFERENCE DATA

SREF = 9.2816 SQ.FT. XMRP = 43.0396 INCHES
LREF = 21.2626 INCHES YMRP = .0000 INCHES
BREF = 40.8119 INCHES ZMRP = 16.2000 INCHES
SCALE = .0405 SCALE

PARAMETRIC DATA

ALPHA = 5.000

RUN NO. 10/ 0 RN/L = 1.04 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	CL	CDF	CLM	CN	CAF	CLN	CSL	CY	XCP/L	L/DF
.260	-5.010	.02360	.00390	.01350	.02400	.00380	.01170	-.00040	.05000	.42730	5.85800
.260	-2.990	.02260	.00360	.01400	.02310	.00360	.00700	-.00020	.01800	.40870	4.01500
.260	-.970	.02360	.00390	.01360	.02420	.00380	.00240	.00000	.00700	.42440	4.02200
.260	.000	.02350	.00360	.01360	.02390	.00370	.00010	.00000	.00100	.42130	4.02300
.260	1.010	.02300	.00370	.01400	.02340	.00360	-.00210	.00000	-.00400	.41210	4.01900
.260	2.990	.02390	.00470	.01360	.02490	.00260	-.00660	.00010	-.01500	.42440	5.07000
.260	5.040	.02360	.00470	.01390	.02360	.00190	-.01190	.00030	-.02700	.42620	5.63600
.260	7.080	.02310	.00260	.01330	.02320	.00060	-.01640	.00040	-.04000	.44050	8.64500
.260	9.080	.02600	.00150	.01390	.02600	-.00060	-.02110	.00070	-.05400	.45950	17.62700
.260	11.070	.02440	.00050	.01290	.02630	-.00190	-.02560	.00100	-.06900	.46950	52.93700
	GRADIENT	.00016	-.00015	-.00002	.00014	-.00016	-.00230	.00009	-.00332	.00179	.13672

REPRODUCIBILITY OF THE ORIGINAL PAGE IS POOR.

SSV-ATP ORBITER B2C2D2 (ADF011) (16 FEB 73)

REFERENCE DATA

SREF = 5.2618 SQ.FT. XMRP = 43.0596 INCHES
LREF = 21.2626 INCHES YMRP = .0000 INCHES
BREF = 40.6119 INCHES ZMRP = 16.2000 INCHES
SCALE = .0405 SCALE

PARAMETRIC DATA

ALPHA = 10.000

RUN NO. 11/ 0 RN/L = 1.64 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	CL	CDF	CLM	CN	CAF	CLN	CSL	CY	XCP/L	L/DF
.260	-5.020	.04610	.00900	.05030	.04890	.00040	.01130	.00020	.03300	.40430	5.34000
.260	-3.020	.04690	.00860	.05090	.04790	.00130	.00860	.00010	.01900	.39430	4.84400
.260	-.990	.04690	.01010	.05080	.04800	.00170	.00240	.00000	.00700	.39530	4.61600
.260	.000	.04660	.01020	.05080	.04790	.00160	.00010	.00000	.00200	.39500	4.58200
.260	1.010	.04650	.01010	.05100	.04760	.00180	-.00210	-.00010	-.00300	.39150	4.58700
.260	3.020	.04730	.00950	.05100	.04820	.00100	-.00670	-.00020	-.01400	.39540	4.96600
.260	5.050	.04820	.00850	.05050	.04890	.00000	-.01100	-.00020	-.02800	.40450	5.66700
.260	7.080	.04880	.00780	.05000	.04940	-.00080	-.01580	-.00030	-.04400	.40950	6.25400
.260	9.070	.05090	.00720	.05020	.05140	-.00170	-.02050	-.00030	-.06100	.42460	7.00400
.260	11.090	.05150	.00620	.05090	.05160	-.00290	-.02520	-.00030	-.06100	.42660	8.26900
	GRADIENT	.00004	-.00001	.00002	.00002	-.00004	-.00225	-.00005	-.00542	-.00002	.01858

SSV-ATP ORBITER B2C2D2 (ADF012) (16 FEB 73)

REFERENCE DATA

SREF = 5.2618 SQ.FT. XMRP = 43.0596 INCHES
LREF = 21.2626 INCHES YMRP = .0000 INCHES
BREF = 40.6119 INCHES ZMRP = 16.2000 INCHES
SCALE = .0405 SCALE

PARAMETRIC DATA

ALPHA = 15.000

RUN NO. 12/ 0 RN/L = 1.64 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	CL	CDF	CLM	CN	CAF	CLN	CSL	CY	XCP/L	L/DF
.260	-5.000	.07340	.01670	.04560	.07520	-.00290	.01060	.00050	.03600	.41010	4.38300
.260	-3.020	.07200	.01710	.04460	.07400	-.00220	.00680	.00040	.02100	.40070	4.20100
.260	-.980	.07160	.01700	.04660	.07350	-.00250	.00230	.00010	.00670	.39760	4.20200
.260	.000	.07210	.01730	.04670	.07410	-.00200	.00010	-.00010	.00500	.40070	4.16200
.260	1.000	.07220	.01740	.04660	.07430	-.00190	-.00210	-.00030	-.00100	.40030	4.19500
.260	3.050	.07210	.01660	.04660	.07390	-.00270	-.00640	-.00060	-.01300	.39960	4.32900
.260	5.030	.07260	.01600	.04560	.07450	-.00350	-.01070	-.00060	-.02900	.40670	4.53700
.260	7.030	.07330	.01530	.04520	.07460	-.00430	-.01460	-.00090	-.04600	.41050	4.77300
.260	9.010	.07390	.01410	.04460	.07500	-.00560	-.01920	-.00110	-.06900	.41490	5.22600
.260	11.090	.07560	.01290	.04370	.07640	-.00720	-.02370	-.00120	-.06400	.42350	5.64600
	GRADIENT	-.00018	.00001	.00013	-.00011	.00004	-.00212	-.00014	-.00399	-.00106	-.01018

POOR QUALITY PAGE. THE ORIGINAL PAGE IS POOR.

SSV-ATP ORBITER B2C2D2 (ADF013) (16 FEB 73)

REFERENCE DATA

SREF = 9.2816 SQ.FT. XMRP = 43.0596 INCHES
LREF = 21.2626 INCHES YMRP = .0000 INCHES
BREF = 40.8119 INCHES ZMRP = 16.2000 INCHES
SCALE = .0405 SCALE

PARAMETRIC DATA

ALPHA = 16.000

RUN NO. 13/ 0 RN/L = 1.64 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	CL	CDF	CLM	CN	CAF	CLN	CSL	CY	XCP/L	L/DF
.260	-4.970	.08970	.02310	.05410	.09240	-.00600	.01040	.00070	.03800	.41800	3.88200
.260	-3.010	.08940	.02370	.05540	.09240	-.00530	.00660	.00050	.02000	.41270	3.76200
.260	-.980	.08810	.02370	.05550	.09110	-.00490	.00240	.00010	.00800	.40900	3.71200
.260	.010	.08830	.02370	.05550	.09130	-.00500	.00000	-.00010	.00500	.40950	3.72800
.260	1.020	.08880	.02370	.05550	.09180	-.00510	-.00230	-.00040	.00000	.41070	3.74600
.260	3.030	.08910	.02330	.05520	.09200	-.00550	-.00660	-.00090	-.01100	.41210	3.81200
.260	5.020	.08920	.02270	.05440	.09180	-.00620	-.01050	-.00120	-.02700	.41540	3.92300
.260	7.050	.09000	.02200	.05330	.09240	-.00700	-.01430	-.00130	-.04900	.42080	4.07500
.260	9.050	.08980	.02060	.05260	.09170	-.00830	-.01840	-.00150	-.07300	.42200	4.35400
.260	11.090	.08930	.01920	.05210	.09080	-.00950	-.02270	-.00170	-.10100	.42290	4.62900
	GRADIENT	-.00010	.00002	.00012	-.00008	.00007	-.00214	-.00020	-.00569	-.00074	-.00671

SSV-ATP ORBITER B2C2D2 (ADF014) (16 FEB 73)

REFERENCE DATA

SREF = 9.2816 SQ.FT. XMRP = 43.0596 INCHES
LREF = 21.2626 INCHES YMRP = .0000 INCHES
BREF = 40.8119 INCHES ZMRP = 16.2000 INCHES
SCALE = .0405 SCALE

PARAMETRIC DATA

ALPHA = 20.000

RUN NO. 14/ 0 RN/L = 1.64 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	CL	CDF	CLM	CN	CAF	CLN	CSL	CY	XCP/L	L/DF
.260	-5.050	.10980	.02810	.05930	.10410	-.00630	.01040	.00090	.03800	.42460	3.97000
.260	-3.020	.10000	.02690	.06090	.10390	-.00730	.00700	.00080	.01800	.41800	3.45900
.260	-.990	.09960	.02900	.06120	.10360	-.00710	.00250	.00020	.00700	.41620	3.42500
.260	.030	.09990	.02660	.06120	.10370	-.00740	.00000	-.00020	.00400	.41630	3.46100
.260	.990	.09990	.02660	.06100	.10300	-.00920	-.00250	-.00060	.00200	.41360	3.71700
.260	3.020	.09960	.02770	.06070	.10320	-.00840	-.00700	-.00130	-.00700	.41700	3.59200
.260	5.010	.10100	.02750	.05980	.10430	-.00900	-.01060	-.00150	-.02400	.42320	3.66300
.260	7.040	.10050	.02750	.05880	.10360	-.00880	-.01400	-.00130	-.04800	.42570	3.84700
.260	9.060	.10030	.02800	.05810	.10310	-.01020	-.01780	-.00160	-.07500	.42710	3.85100
.260	11.780	.09930	.02380	.05720	.10140	-.01160	-.02190	-.00190	-.10600	.42660	4.15300
	GRADIENT	-.00008	-.00029	-.00004	-.00015	-.00027	-.00254	-.00035	-.00398	-.00018	.03409

REPRODUCIBILITY OF THE ORIGINAL PAGE IS POOR.

SSV-ATP ORBITER B2C2D3 (ADF015) (16 FEB 73)

REFERENCE DATA

SREF = 5.2616 SQ.FT. XMRP = 43.0396 INCHES
LREF = 21.2628 INCHES YMRP = .0000 INCHES
BREF = 40.8119 INCHES ZMRP = 16.2000 INCHES
SCALE = .0405 SCALE

PARAMETRIC DATA

BETA = .000

RUN NO. 15/ 0 RN/L = 1.64 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CL	CDF	CLM	CN	CAF	CLN	CSL	CY	XCP/L	L/DF
.260	-5.030	-.02290	.00650	-.02060	-.02340	.00430	.00000	.00000	.00000	.30050	-3.61000
.260	-2.030	-.01060	.00310	-.00980	-.01080	.00470	.00010	.00000	.00000	.28890	-2.07600
.260	-1.000	-.00340	.00370	-.00660	-.00350	.00360	.00020	.00000	.00000	-.13760	-.91900
.260	.000	.00050	.00290	-.00360	.00050	.00290	.00000	.00000	.00000	3.21920	.18600
.260	.990	.00370	.00270	-.00050	.00370	.00260	.00040	.00000	.00000	.67270	2.07700
.260	3.010	.01460	.00430	.00690	.01460	.00350	.00020	.00000	.00000	.47380	3.38200
.260	5.030	.02260	.00550	.01390	.02300	.00350	.00010	.00000	.00000	.41110	4.08200
.260	8.040	.02660	.00650	.01700	.02720	.00350	.00010	.00000	.00000	.40220	4.16300
.260	8.090	.03570	.00740	.02410	.03640	.00291	.00000	.00000	.00000	.38700	4.76700
.260	10.080	.04360	.00900	.03080	.04450	.00120	.00000	.00000	.00000	.37370	4.83000
.260	12.110	.05370	.01140	.03700	.05490	.00000	.00010	.00000	.00100	.36330	4.67500
.260	14.110	.06290	.01410	.04270	.06450	-.00150	.00010	.00000	.00200	.36760	4.45300
.260	16.120	.07260	.01750	.04840	.07470	-.00350	.00010	.00000	.00100	.39330	4.16800
.260	17.150	.07830	.01980	.05140	.08070	-.00410	.00010	.00000	.00200	.39780	3.95100
.260	19.170	.08870	.02360	.05660	.09150	-.00660	.00010	-.00010	.00200	.40420	3.75800
.260	21.190	.10000	.02910	.06210	.10370	-.00900	.00000	-.00010	.00300	.41260	3.43500
	GRADIENT	.00487	-.00014	.00325	.00495	-.00023	.00003	.00000	.00000	.05175	1.12250

SSV-ATP ORBITER B2C2D3 (ADF016) (16 FEB 73)

REFERENCE DATA

SREF = 5.2616 SQ.FT. XMRP = 43.0396 INCHES
LREF = 21.2628 INCHES YMRP = .0000 INCHES
BREF = 40.8119 INCHES ZMRP = 16.2000 INCHES
SCALE = .0405 SCALE

PARAMETRIC DATA

ALPHA = .000

RUN NO. 16/ 0 RN/L = 1.64 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	CL	CDF	CLM	CN	CAF	CLN	CSL	CY	XCP/L	L/DF
.260	-5.020	-.00170	.00330	-.00270	-.00170	.00330	.01270	-.00110	.02500	.03630	-.33500
.260	-3.000	-.00120	.00360	-.00260	-.00120	.00360	.00750	-.00060	.01600	-.26050	-.21500
.260	-1.000	.00050	.00310	-.00320	.00050	.00310	.00240	-.00020	.00600	2.82240	.11400
.260	.010	.00070	.00360	-.00350	.00070	.00360	.00030	.00000	.00000	2.69760	.19400
.260	1.010	.00010	.00260	-.00330	.00010	.00260	-.00190	.00020	-.00400	11.95060	.04100
.260	3.040	-.00010	.00260	-.00260	-.00010	.00260	-.00700	.00060	-.01400	-8.21740	-.04600
.260	5.060	-.00370	.00270	-.00260	-.00370	.00270	-.01210	.00090	-.02400	.37150	-1.34000
.260	7.040	.00190	.00150	-.00210	.00190	.00150	-.01730	.00150	-.03400	1.09690	1.26400
.260	9.060	.00030	.00100	-.00270	.00030	.00100	-.02220	.00190	-.04300	3.99010	.30700
.260	11.090	.00160	.00000	-.00260	.00160	.00000	-.02730	.00250	-.05700	1.33150	-10.74700
	GRADIENT	.00014	-.00039	-.00000	.00014	-.00039	-.00237	.00020	-.00497	-.74193	.02110

SSV-ATP ORBITER B2C2D3 (ADF017) (18 FEB 75)

REFERENCE DATA

SREF = 5.2816 SQ.FT. XMRP = 43.0398 INCHES
LREF = 21.2628 INCHES YMRP = .0000 INCHES
BREF = 40.8119 INCHES ZMRP = 16.2000 INCHES
SCALE = .0409 SCALE

PARAMETRIC DATA

ALPHA = 5.000

RUN NO. 17/ 0 RN/L = 1.64 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	CL	CDF	CLM	CN	CAF	CLN	CSL	CY	XCP/L	L/DF
.260	-5.020	.02260	.00560	.01340	.02320	.00370	.01200	-.00040	.02600	.42110	3.92900
.260	-2.990	.02170	.00540	.01370	.02210	.00350	.00720	-.00020	.01700	.40330	3.93400
.260	-.980	.02160	.00540	.01360	.02200	.00350	.00250	.00000	.00600	.40560	3.97900
.260	.020	.02110	.00520	.01360	.02150	.00330	.00020	.00000	.00000	.39980	4.05500
.260	1.040	.02060	.00510	.01360	.02100	.00330	-.00200	.00000	-.00500	.39360	4.03200
.260	3.030	.02250	.00420	.01390	.02280	.00230	-.00660	.00020	-.01500	.40760	9.23600
.260	5.020	.02360	.00340	.01370	.02360	.00140	-.01160	.00040	-.02600	.42230	6.75500
.260	7.060	.02470	.00200	.01350	.02460	-.00010	-.01660	.00050	-.03600	.43490	12.27900
.260	9.100	.02610	.00060	.01310	.02610	-.00140	-.02130	.00080	-.05100	.45020	30.28900
.260	11.070	.02650	-.00050	.01310	.02640	-.00300	-.02620	.00100	-.06500	.46660	-33.44200
	GRADIENT	.00007	-.00019	.00009	.00005	-.00019	-.00232	.00006	-.00933	.00007	.19362

SSV-ATP ORBITER B2C2D3 (ADF018) (18 FEB 75)

REFERENCE DATA

SREF = 5.2816 SQ.FT. XMRP = 43.0398 INCHES
LREF = 21.2628 INCHES YMRP = .0000 INCHES
BREF = 40.8119 INCHES ZMRP = 16.2000 INCHES
SCALE = .0409 SCALE

PARAMETRIC DATA

ALPHA = 10.000

RUN NO. 18/ 0 RN/L = 1.64 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	CL	CDF	CLM	CN	CAF	CLN	CSL	CY	XCP/L	L/DF
.260	-4.950	.04690	.00880	.02990	.04730	.00050	.01150	.00020	.03200	.39960	5.28400
.260	-3.010	.04500	.00690	.03050	.04590	.00090	.00700	.00010	.01900	.38720	5.02700
.260	-.980	.04500	.00910	.03050	.04590	.00110	.00250	.00000	.00700	.38660	4.90200
.260	.000	.04460	.00910	.03060	.04560	.00110	.00010	.00000	.00100	.38410	4.87900
.260	.990	.04520	.00910	.03060	.04610	.00100	-.00210	.00000	-.00400	.38700	4.84700
.260	3.040	.04540	.00830	.03050	.04620	.00030	-.00660	-.00020	-.01600	.38860	5.41600
.260	5.020	.04670	.00770	.02990	.04740	-.00050	-.01110	-.00020	-.03000	.39970	6.03200
.260	7.040	.04750	.00730	.02960	.04810	-.00100	-.01610	-.00030	-.04300	.40960	6.44200
.260	9.040	.05000	.00640	.02880	.05040	-.00230	-.02060	-.00030	-.06000	.42350	7.72400
.260	11.070	.05300	.00590	.02820	.05320	-.00340	-.02510	-.00020	-.07700	.44010	8.66900
	GRADIENT	-.00011	-.00003	.00007	-.00011	-.00001	-.00227	-.00004	-.00397	-.00119	.00478

SSV-ATP ORBITER B2C2D3 (ADF019) (16 FEB 73)

REFERENCE DATA

SREF = 5.2816 SQ.FT. XMRP = 43.0396 INCHES
LREF = 21.2828 INCHES YMRP = .0000 INCHES
BREF = 40.8119 INCHES ZMRP = 16.2000 INCHES
SCALE = .0405 SCALE

PARAMETRIC DATA

ALPHA = 15.000

RUN NO. 19/ 0 RN/L = 1.64 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	CL	CDF	CLM	CN	CAF	CLN	CSL	CY	XCP/L	L/DF
.260	-5.050	.07050	.01540	.04480	.07210	-.00340	.01060	.00050	.04000	.40370	4.55200
.260	-3.000	.06860	.01560	.04570	.07050	-.00270	.00640	.00040	.02400	.39260	4.36000
.260	-1.010	.06920	.01600	.04570	.07100	-.00250	.00220	.00010	.00900	.39520	4.31700
.260	-.010	.06920	.01620	.04580	.07100	-.00230	.00010	.00000	.00200	.39500	4.26500
.260	1.000	.06940	.01630	.04560	.07130	-.00230	-.00190	-.00020	-.00500	.39660	4.25100
.260	3.030	.06840	.01560	.04580	.07020	-.00250	-.00630	-.00050	-.01900	.39170	4.31600
.260	5.020	.06920	.01490	.04500	.07070	-.00330	-.01040	-.00060	-.03400	.39800	4.61700
.260	7.040	.06920	.01340	.04400	.07030	-.00500	-.01480	-.00080	-.05200	.40210	5.14900
.260	9.050	.07270	.01330	.04390	.07360	-.00610	-.01950	-.00100	-.07000	.41400	5.44600
.260	11.100	.07430	.01250	.04360	.07500	-.00730	-.02360	-.00110	-.09200	.41990	5.94400
	GRADIENT	-.00002	.00004	.00001	-.00000	.00004	-.00210	-.00015	-.00711	-.00007	-.01274

SSV-ATP ORBITER B2C2D3 (ADF020) (16 FEB 73)

REFERENCE DATA

SREF = 5.2816 SQ.FT. XMRP = 43.0396 INCHES
LREF = 21.2828 INCHES YMRP = .0000 INCHES
BREF = 40.8119 INCHES ZMRP = 16.2000 INCHES
SCALE = .0405 SCALE

PARAMETRIC DATA

ALPHA = 18.000

RUN NO. 20/ 0 RN/L = 1.64 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	CL	CDF	CLM	CN	CAF	CLN	CSL	CY	XCP/L	L/DF
.260	-5.040	.08300	.02110	.05320	.08740	-.00630	.01000	.00050	.04600	.40860	4.01900
.260	-3.000	.08420	.02140	.05400	.08870	-.00580	.00600	.00040	.02700	.40360	3.92500
.260	-.990	.08480	.02190	.05390	.08740	-.00560	.00210	.00010	.01100	.40390	3.87600
.260	.000	.08440	.02190	.05390	.08710	-.00540	.00000	.00000	.00200	.40470	3.84200
.260	1.000	.08470	.02200	.05360	.08740	-.00540	-.00180	-.00020	-.00500	.40600	3.83600
.260	3.030	.08200	.02120	.05400	.08490	-.00520	-.00590	-.00070	-.02100	.39710	3.85500
.260	5.020	.08340	.02070	.05360	.08570	-.00620	-.00980	-.00080	-.03900	.40160	4.01600
.260	7.090	.08370	.01980	.05290	.08570	-.00720	-.01410	-.00100	-.05800	.40570	4.22700
.260	9.090	.08670	.01880	.05220	.08820	-.00830	-.01880	-.00130	-.07800	.41560	4.43000
.260	11.100	.08810	.01810	.05160	.08940	-.01020	-.02290	-.00150	-.10200	.42140	4.63400
	GRADIENT	-.00033	-.00009	-.00000	-.00033	.00010	-.00198	-.00018	-.01783	-.00097	-.01222

SSV-ATP ORBITER BECEDS (ADF021) (16 FEB 73)

REFERENCE DATA

SREF = 3.2816 SQ.FT. XMRP = 43.0398 INCHES
LREF = 21.2828 INCHES YMRP = .0000 INCHES
BREF = 40.8119 INCHES ZMRP = 16.2000 INCHES
SCALE = .0405 SCALE

PARAMETRIC DATA

ALPHA = 20.000

RUN NO. 21/ 0 RN/L = 1.84 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	CL	CDF	CLM	CN	CAF	CLN	CSL	CY	XCP/L	L/DF
.260	-5.030	.09360	.02610	.05850	.09870	-.00840	.00970	.00050	.05100	.41950	3.65900
.260	-3.020	.09470	.02650	.05910	.09810	-.00770	.00620	.00050	.02900	.41120	3.56700
.260	-.990	.09360	.02660	.05950	.09910	-.00780	.00210	.00010	.01200	.41320	3.56900
.260	-.010	.09320	.02610	.05940	.09840	-.00650	.00000	-.00010	.00300	.41110	3.64300
.260	3.030	.09360	.02600	.05810	.09690	-.00780	-.00590	-.00060	-.02200	.40860	3.59900
.260	5.030	.09370	.02540	.05900	.09670	-.00640	-.00950	-.00090	-.04200	.40850	3.68400
.260	7.060	.09490	.02470	.05800	.09760	-.00940	-.01350	-.00100	-.06400	.41480	3.82700
.260	9.070	.09590	.02350	.05790	.09810	-.01120	-.01790	-.00140	-.08600	.41800	4.11300
.260	11.110	.09690	.02220	.05670	.09860	-.01250	-.02220	-.00160	-.10900	.42220	4.36100
	GRADIENT	-.00025	-.00010	-.00000	-.00024	-.00002	-.00200	-.00022	-.00644	-.00035	.00436

SSV-ATP ORBITER 82CE02M1 (ADF022) (10 FEB 75)

REFERENCE DATA

SREF = 5.2616 SQ.FT. XMRP = 43.0596 INCHES
LREF = 21.2828 INCHES YMRP = .0000 INCHES
BREF = 40.8119 INCHES ZMRP = 16.2000 INCHES
SCALE = .0405 SCALE

PARAMETRIC DATA

BETA = .000

RUN NO. 22/ 0 RN/L = 1.84 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CL	CDF	CLM	CN	CAF	CLN	CSL	CY	XCP/L	L/DF
.260	-5.050	-.04450	.00650	-.00950	-.04490	.00460	-.00020	.00010	.00000	.58620	-5.15900
.260	-3.030	-.03190	.00640	-.00590	-.03220	.00470	.00000	.00000	.00000	.60110	-4.94000
.260	-1.010	-.01930	.00620	.00100	-.01940	.00590	-.00010	.00000	.00000	.67150	-3.08900
.260	-.010	-.01290	.00590	.00340	-.01290	.00590	-.00020	.00000	.00000	.75550	-2.18600
.260	1.000	-.00840	.00560	.00540	-.00620	.00590	-.00010	.00000	.00000	.99290	-1.08700
.260	3.000	.00540	.00620	.01070	.00570	.00590	.00000	.00000	.00000	-.08310	.07700
.260	5.040	.01780	.00590	.01620	.01800	.00430	.00000	.00000	.00000	.29510	2.95600
.260	6.060	.02360	.00670	.01870	.02410	.00420	.00000	.00000	.00000	.34330	3.48600
.260	8.080	.03550	.00750	.02400	.03620	.00250	.00000	.00000	.00000	.38720	4.68500
.260	10.080	.04760	.00900	.02870	.04870	.00050	.00000	.00000	.00000	.41630	5.30200
.260	12.100	.06120	.01130	.03300	.06220	-.00170	.00000	.00000	.00000	.43990	5.40700
.260	14.120	.07490	.01490	.03740	.07610	-.00440	.00000	.00000	.00000	.45560	5.24000
.260	16.130	.08880	.01790	.04160	.09010	-.00750	.00000	.00000	.00000	.46710	4.92700
.260	17.150	.09580	.02010	.04390	.09750	-.00900	-.00010	.00000	.00100	.47160	4.75600
.260	19.170	.10920	.02470	.04840	.11130	-.01250	-.00010	-.00010	.00100	.47780	4.41600
.260	21.190	.12190	.03000	.05370	.12480	-.01600	-.00010	-.00010	.00100	.47930	4.05800
.260	23.240	.13680	.03690	.05770	.14030	-.02000	-.00020	-.00020	.00200	.48700	3.70100
.260	25.270	.15120	.04390	.06230	.15550	-.02470	-.00020	-.00030	.00200	.49130	3.43600
.260	28.300	.17070	.05710	.06820	.17730	-.03060	-.00020	-.00040	.00300	.49760	2.98600
	GRADIENT	.00621	-.00005	.00240	.00631	.00016	-.00000	.00000	.00000	-.08584	.06776

SSV-ATP ORBITER 82CE02H1 (ADF023) (16 FEB 73)

REFERENCE DATA

SREF = 5.2818 SQ.FT. XMRP = 43.0396 INCHES
LREF = 21.2628 INCHES YMRP = .0000 INCHES
BREF = 40.8119 INCHES ZMRP = 16.2000 INCHES
SCALE = .0409 SCALE

PARAMETRIC DATA

ALPHA = .000

RUN NO. 23/ 0 RN/L = 1.84 GRADIENT INTERVAL = -3.00/ 5.00

MACH	BETA	CL	CDF	CLN	CN	CAF	CLN	CSL	CY	XCP/L	L/DF
.260	-5.040	-.01410	.00640	.00390	-.01410	.00640	.01240	-.00060	.02600	.75950	-2.17200
.260	-3.020	-.01390	.00580	.00370	-.01390	.00560	.00740	-.00050	.01500	.75730	-2.46900
.260	-1.010	-.01310	.00560	.00320	-.01310	.00560	.00240	-.00010	.00500	.74790	-2.34800
.260	-.040	-.01260	.00560	.00320	-.01260	.00560	.00000	.00000	.00000	.75070	-2.17500
.260	1.000	-.01300	.00600	.00360	-.01300	.00600	-.00240	.00010	-.00400	.75990	-2.14800
.260	3.010	-.01340	.00640	.00360	-.01340	.00640	-.00720	.00050	-.01300	.76430	-2.75700
.260	5.000	-.01380	.00590	.00430	-.01380	.00590	-.01230	.00090	-.02400	.77390	-3.49100
.260	7.000	-.01220	.00500	.00410	-.01220	.00500	-.01730	.00140	-.03500	.78510	-3.95400
.260	9.010	-.01160	.00160	.00350	-.01160	.00160	-.02220	.00190	-.04600	.78920	-7.16200
.260	11.040	-.00870	.00020	.00310	-.00870	.00020	-.02710	.00230	-.05900	.79190	-36.66400
	GRADIENT	-.00002	-.00022	.00010	-.00002	-.00022	-.00244	.00017	-.00477	.00263	-.12925

SSV-ATP ORBITER 82CE02H1 (ADF024) (16 FEB 73)

REFERENCE DATA

SREF = 5.2818 SQ.FT. XMRP = 43.0396 INCHES
LREF = 21.2628 INCHES YMRP = .0000 INCHES
BREF = 40.8119 INCHES ZMRP = 16.2000 INCHES
SCALE = .0409 SCALE

PARAMETRIC DATA

ALPHA = 5.000

RUN NO. 24/ 0 RN/L = 1.84 GRADIENT INTERVAL = -3.00/ 5.00

MACH	BETA	CL	CDF	CLN	CN	CAF	CLN	CSL	CY	XCP/L	L/DF
.260	-5.030	.01780	.00580	.01970	.01810	.00420	.01240	.00000	.02700	.30640	3.01800
.260	-3.040	.01750	.00580	.01990	.01800	.00450	.00750	.00000	.01500	.29850	2.99100
.260	-1.010	.01780	.00610	.01820	.01810	.00450	.00250	.00000	.00400	.29620	2.88800
.260	.000	.01880	.00800	.01820	.01710	.00460	.00010	.00000	.00000	.27470	2.73500
.260	.990	.01740	.00670	.01620	.01600	.00510	-.00230	.00000	-.00400	.29340	2.59400
.260	3.020	.01760	.00540	.01610	.01800	.00390	-.00720	.00000	-.01500	.29480	3.82300
.260	5.000	.01780	.00480	.01990	.01810	.00300	-.01210	.00000	-.02600	.30340	3.84600
.260	7.030	.01870	.00490	.01970	.01910	.00290	-.01700	.00010	-.03900	.32380	4.11300
.260	9.040	.01980	.00340	.01980	.01940	.00170	-.02190	.00020	-.05300	.32820	5.32900
.260	11.060	.01950	.00200	.01840	.01960	.00030	-.02660	.00030	-.06700	.31640	9.93600
	GRADIENT	.00009	-.00016	-.00091	.00002	-.00016	-.00243	.00000	-.00903	.00089	.10093

SSV-ATP ORBITER B2C202M1 (ADF025) (16 FEB 73)

REFERENCE DATA

SREF = 5.2616 SQ.FT. XMRP = 43.0596 INCHES
LREF = 21.2628 INCHES YMRP = .0000 INCHES
BREF = 40.8119 INCHES ZMRP = 16.2000 INCHES
SCALE = .0409 SCALE

PARAMETRIC DATA

ALPHA = 10.000

RUN NO. 25/ 0 RN/L = 1.84 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	CL	CDF	CLM	CN	CAF	CLN	CSL	CY	XCP/L	L/DF
.260	-5.050	.04890	.00910	.02810	.04970	.00040	.01200	.00050	.03000	.42600	5.36200
.260	-3.040	.04850	.00940	.02860	.04940	.00070	.00720	.00040	.01600	.42120	5.15300
.260	-1.020	.04860	.00920	.02870	.04970	.00050	.00250	.00010	.00300	.42130	5.26900
.260	-.020	.04820	.00880	.02880	.04900	.00020	.00000	.00000	.00000	.41740	5.47900
.260	1.000	.04820	.00840	.02870	.04890	-.00010	-.00230	-.00010	-.00400	.41720	5.70600
.260	3.020	.04860	.00740	.02840	.04920	-.00110	-.00690	-.00040	-.01500	.42110	6.55300
.260	5.000	.04910	.00710	.02820	.04960	-.00150	-.01160	-.00060	-.02900	.42490	6.85200
.260	7.020	.05000	.00690	.02810	.05040	-.00230	-.01650	-.00080	-.04400	.42880	7.69400
.260	9.020	.04960	.00980	.02840	.04990	-.00280	-.02140	-.00110	-.06100	.42460	8.45000
.260	11.070	.04960	.00980	.02800	.04960	-.00410	-.02630	-.00140	-.08000	.40690	11.60600
	GRADIENT	.00006	-.00032	-.00008	.00000	-.00090	-.00233	-.00012	-.00548	.00042	.23681

SSV-ATP ORBITER B2C202M1 (ADF026) (16 FEB 73)

REFERENCE DATA

SREF = 5.2616 SQ.FT. XMRP = 43.0596 INCHES
LREF = 21.2628 INCHES YMRP = .0000 INCHES
BREF = 40.8119 INCHES ZMRP = 16.2000 INCHES
SCALE = .0409 SCALE

PARAMETRIC DATA

ALPHA = 15.000

RUN NO. 26/ 0 RN/L = 1.84 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	CL	CDF	CLM	CN	CAF	CLN	CSL	CY	XCP/L	L/DF
.260	-5.040	.06390	.01650	.03900	.06490	-.00560	.01140	.00110	.03200	.46600	5.05600
.260	-3.040	.06320	.01720	.03820	.06460	-.00510	.00660	.00060	.01700	.46660	4.84000
.260	-1.010	.06290	.01640	.03960	.06440	-.00570	.00220	.00020	.00600	.46400	5.03200
.260	-.010	.06240	.01590	.03940	.06370	-.00610	.00000	.00000	.00100	.46340	5.16500
.260	.980	.06260	.01530	.03990	.06360	-.00660	-.00220	-.00030	-.00400	.46360	5.41300
.260	3.020	.06330	.01420	.03890	.06430	-.00800	-.00890	-.00090	-.01600	.46530	5.86700
.260	4.990	.06260	.01370	.03890	.06350	-.00830	-.01140	-.00130	-.03000	.46540	6.03500
.260	7.040	.06290	.01330	.03880	.06330	-.00970	-.01590	-.00160	-.04900	.46590	6.20700
.260	9.040	.06110	.01140	.03930	.06120	-.01010	-.02090	-.00220	-.07000	.45820	7.06600
.260	11.080	.07840	.01020	.04070	.07840	-.01050	-.02500	-.00270	-.08500	.44410	7.64200
	GRADIENT	.00000	-.00046	-.00009	-.00018	-.00044	-.00227	-.00026	-.00578	-.00004	.16264

SSV-ATP ORBITER 82C202M1 (ADF027) (16 FEB 73)

REFERENCE DATA

SREF = 5.2616 SQ.FT. XMRP = 43.0596 INCHES
LREF = 21.2628 INCHES YMRP = .0000 INCHES
BREF = 40.6119 INCHES ZMRP = 16.2000 INCHES
SCALE = .0403 SCALE

PARAMETRIC DATA

ALPHA = 10.000

RUN NO. 27/ 0 RN/L = 1.84 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	CL	CDF	CLM	CN	CAF	CLN	CSL	CY	XCP/L	L/DF
.260	-5.030	.10460	.02340	.04520	.10690	-.01040	.01110	.00150	.03200	.46270	4.46900
.260	-3.020	.10320	.02450	.04560	.10560	-.00900	.00710	.00110	.01500	.47900	4.24000
.260	-1.000	.10320	.02350	.04590	.10530	-.00980	.00250	.00030	.00500	.47730	4.38700
.260	-.010	.10320	.02240	.04620	.10500	-.01060	.00000	.00000	.00100	.47560	4.59200
.260	.980	.10350	.02210	.04620	.10530	-.01120	-.00250	-.00050	-.00200	.47620	4.67300
.260	3.000	.10460	.02030	.04560	.10570	-.01320	-.00700	-.00130	-.01300	.47850	5.13200
.260	4.990	.10430	.02060	.04510	.10560	-.01270	-.01120	-.00170	-.02900	.48070	5.00500
.260	7.040	.10390	.02060	.04410	.10510	-.01270	-.01540	-.00200	-.05100	.48400	5.05300
.260	9.040	.10130	.01830	.04500	.10200	-.01410	-.01980	-.00260	-.07400	.47510	5.52600
.260	11.070	.09640	.01600	.04690	.09680	-.01470	-.02460	-.00350	-.10100	.45760	5.99000
	GRADIENT	.00019	-.00050	-.00006	.00005	-.00054	-.00230	-.00036	-.00530	.00027	.11330

SSV-ATP ORBITER 82C202M1 (ADF028) (16 FEB 73)

REFERENCE DATA

SREF = 5.2616 SQ.FT. XMRP = 43.0596 INCHES
LREF = 21.2628 INCHES YMRP = .0000 INCHES
BREF = 40.6119 INCHES ZMRP = 16.2000 INCHES
SCALE = .0403 SCALE

PARAMETRIC DATA

ALPHA = 20.000

RUN NO. 28/ 0 RN/L = 1.84 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	CL	CDF	CLM	CN	CAF	CLN	CSL	CY	XCP/L	L/DF
.260	-5.060	.11940	.02890	.04690	.12220	-.01350	.01110	.00180	.02900	.49170	4.03600
.260	-3.020	.11780	.03040	.04990	.12110	-.01210	.00760	.00160	.01100	.48660	3.87100
.260	-1.010	.11670	.02980	.05040	.11990	-.01250	.00270	.00050	.00300	.48350	3.91100
.260	-.040	.11590	.02880	.05010	.11810	-.01430	.00000	-.00010	.00100	.47920	4.02100
.260	.990	.11610	.02840	.05090	.11990	-.01590	-.00260	-.00070	.00000	.48180	4.46100
.260	3.010	.11900	.02930	.05040	.12050	-.01730	-.00770	-.00160	-.00800	.48410	4.69500
.260	5.000	.11980	.02840	.04900	.12150	-.01660	-.01130	-.00210	-.02700	.49020	4.93500
.260	7.020	.11920	.02870	.04780	.12110	-.01610	-.01500	-.00220	-.05100	.49360	4.46500
.260	9.050	.11930	.02970	.04820	.11640	-.01740	-.01950	-.00290	-.07800	.48600	4.84800
.260	11.040	.10910	.02180	.05040	.10980	-.01750	-.02410	-.00390	-.10500	.46030	5.03100
	GRADIENT	.00040	-.00019	-.00009	.00016	-.00069	-.00240	-.00048	-.00439	.00091	.10334

SSV-ATP ORBITER B2C202M1P1 (ADF029) (16 FEB 73)

REFERENCE DATA

SREF = 5.2818 SQ.FT. XMRP = 43.0396 INCHES
LREF = 21.2826 INCHES YMRP = .0000 INCHES
BREF = 40.8119 INCHES ZMRP = 16.2000 INCHES
SCALE = .0405 SCALE

PARAMETRIC DATA

BETA = .000 B2FLAP = .000

RUN NO. 29/ 0 RN/L = 1.84 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CL	CDF	CLM	CN	CAF	CLN	CSL	CY	XCP/L	L/DF
.260	-5.070	-.03970	.00610	-.01100	-.04030	.00460	.00000	.00000	.00000	.54170	-4.86200
.260	-3.030	-.03000	.00690	-.00500	-.03030	.00530	.00000	.00000	.00000	.56430	-4.29600
.260	-1.000	-.01720	.00660	-.00010	-.01740	.00630	.00000	.00000	.00000	.64760	-2.98300
.260	.000	-.01100	.00590	.00250	-.01100	.00590	.00000	.00000	.00000	.73520	-1.86600
.260	1.000	-.00530	.00610	.00490	-.00520	.00620	.00000	.00000	.00000	1.02210	-.87500
.260	3.010	.00620	.00990	.01010	.00650	.00560	.00000	.00000	.00000	.03400	1.03900
.260	5.030	.01870	.00820	.01510	.01920	.00460	.00000	.00000	.00000	.33690	2.98100
.260	6.030	.02530	.00660	.01760	.02590	.00390	.00000	.00000	.00000	.37960	3.79800
.260	8.070	.03650	.00610	.02200	.03930	.00260	.00000	.00000	.00000	.42610	4.72600
.260	10.080	.05220	.00920	.02570	.05300	.00000	.00000	.00000	.00000	.45760	5.66200
.260	12.080	.06790	.01160	.02860	.06850	-.00250	.00000	.00000	.00000	.48440	5.70600
.260	14.190	.08410	.01610	.03110	.08550	-.00490	.00000	.00000	.00000	.50560	5.21600
.260	16.160	.10060	.02090	.03320	.10250	-.00620	.00000	.00000	.00100	.52160	4.89700
.260	17.170	.10870	.02310	.03430	.11070	-.00990	-.00010	-.00010	.00100	.52710	4.70000
.260	19.180	.12420	.02660	.03640	.12670	-.01370	-.00010	-.00020	.00100	.53610	4.55500
.260	21.220	.14210	.03020	.03860	.14360	-.01760	-.00010	-.00020	.00100	.54490	3.92100
.260	23.240	.15780	.04410	.04070	.16220	-.02180	-.00020	-.00030	.00200	.55050	3.57300
.260	25.270	.17280	.05350	.04280	.17110	-.02550	-.00020	-.00040	.00300	.55330	3.22600
.260	26.340	.19500	.06910	.04970	.20440	-.03170	-.00050	-.00060	.00600	.56150	2.82200
	GRADIENT	.00399	-.00017	.00250	.00609	.00004	.00000	.00000	.00000	-.06331	.68029

SSV-ATP ORBITER B2C002M1F1 (ADF030) (16 FEB 73)

REFERENCE DATA

SREF = 9.2816 SQ.FT. XMRP = 43.0396 INCHES
LREF = 21.2626 INCHES YMRP = .0000 INCHES
BREF = 40.8119 INCHES ZMRP = 16.2000 INCHES
SCALE = .0405 SCALE

PARAMETRIC DATA

ALPHA = .000 B2FLAP = .000

RUN NO. 30/ 0 RN/L = 1.84 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	CL	CDF	CLM	CN	CAF	CLN	CSL	CY	XCP/L	L/DF
.260	-5.020	-.01100	.00630	.00300	-.01100	.00630	.01240	-.00100	.02600	.75990	-1.74000
.260	-3.020	-.01350	.00600	.00320	-.01350	.00600	.00740	-.00060	.01500	.74620	-2.22800
.260	-.980	-.01150	.00360	.00260	-.01150	.00580	.00240	-.00010	.00500	.74710	-1.96400
.260	-.010	-.01020	.00650	.00250	-.01020	.00650	.00000	.00000	.00000	.74860	-1.54900
.260	.990	-.01120	.00600	.00260	-.01120	.00600	-.00230	.00010	-.00400	.74440	-1.86500
.260	3.020	-.01040	.00590	.00280	-.01040	.00590	-.00740	.00050	-.01300	.75950	-1.76500
.260	5.000	-.01060	.00490	.00330	-.01060	.00490	-.01240	.00100	-.02400	.77550	-2.12400
.260	7.030	-.01060	.00420	.00360	-.01060	.00420	-.01730	.00140	-.03500	.78320	-2.32500
.260	9.040	-.01060	.00250	.00360	-.01060	.00250	-.02210	.00200	-.04700	.78360	-4.12900
.260	11.060	-.00910	.00100	.00370	-.00910	.00100	-.02690	.00240	-.05900	.81140	-8.48300
	GRADIENT	.00031	-.00012	.00002	.00031	-.00012	-.00246	.00019	-.00477	.00358	.01101

SSV-ATP ORBITER B2C2D2M1F1 (ADF031) (16 FEB 73)

REFERENCE DATA

SREF = 9.2816 SQ.FT. XMRP = 43.0396 INCHES
LREF = 21.2626 INCHES YMRP = .0000 INCHES
BREF = 40.8119 INCHES ZMRP = 16.2000 INCHES
SCALE = .0405 SCALE

PARAMETRIC DATA

ALPHA = 5.000 B2FLAP = .000

RUN NO. 31/ 0 RN/L = 1.84 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	CL	CDF	CLM	CN	CAF	CLN	CSL	CY	XCP/L	L/DF
.260	-5.030	.02000	.00830	.01490	.02050	.00470	.01210	-.00010	.02800	.36230	3.04900
.260	-3.010	.01970	.00670	.01510	.02020	.00500	.00710	.00000	.01600	.35350	2.80400
.260	-1.000	.01960	.00710	.01530	.02020	.00530	.00230	.00000	.00600	.35000	2.75200
.260	.000	.01990	.00710	.01530	.02040	.00530	.00000	.00000	.00000	.35300	2.79900
.260	1.000	.01970	.00660	.01530	.02020	.00500	-.00240	.00000	-.00400	.35060	2.69100
.260	3.030	.01650	.00640	.01460	.01900	.00320	-.00730	.00000	-.01400	.34220	2.69300
.260	5.010	.01870	.00570	.01500	.01920	.00410	-.01210	.00000	-.02600	.34110	3.25300
.260	7.030	.01960	.00510	.01500	.02000	.00350	-.01680	.00010	-.03600	.33160	3.84600
.260	9.060	.01940	.00430	.01540	.01970	.00250	-.02170	.00020	-.05300	.34160	4.51200
.260	11.070	.08100	.00270	.01610	.02120	.00080	-.02610	.00030	-.06800	.34920	7.77100
	GRADIENT	-.00017	-.00000	-.00004	-.00018	.00001	-.00238	.00000	-.00497	-.00168	-.02482

SSV-ATP ORBITER B2C2D2M1F1 (ADF032) (16 FEB 73)

REFERENCE DATA

SREF = 9.2816 SQ.FT. XMRP = 43.0398 INCHES
LREF = 21.2826 INCHES YMRP = .0000 INCHES
BREF = 40.8119 INCHES ZMRP = 16.2000 INCHES
SCALE = .0403 SCALE

PARAMETRIC DATA

ALPHA = 10.000 B2FLAP = .000

RUN NO. 32/ 0 RN/L = 1.84 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	CL	CDF	CLM	CN	CAF	CLN	CSL	CY	XCP/L	L/DF
.260	-5.040	.05230	.00960	.02470	.05310	.00050	.01160	.00050	.03000	.46580	5.41900
.260	-3.010	.05210	.01000	.02520	.05310	.00070	.00700	.00050	.01700	.46210	5.18600
.260	-.960	.05040	.00990	.02550	.05130	.00090	.00250	.00000	.00500	.45460	5.08700
.260	.010	.05230	.00960	.02550	.05320	.00050	.00000	.00000	.00000	.46020	5.41800
.260	.990	.05260	.00960	.02550	.05350	.00050	-.00220	-.00010	-.00400	.46120	5.33200
.260	3.030	.05340	.00900	.02510	.05420	-.00040	-.00700	-.00040	-.01500	.46650	5.87300
.260	5.010	.05320	.00850	.02470	.05390	-.00090	-.01160	-.00060	-.02900	.46810	6.22600
.260	7.040	.05350	.00710	.02470	.05390	-.00230	-.01650	-.00080	-.04400	.46830	7.46700
.260	9.040	.05420	.00680	.02510	.05450	-.00270	-.02130	-.00110	-.06200	.46770	7.90800
.260	11.070	.05550	.00590	.02550	.05570	-.00340	-.02580	-.00130	-.08100	.46170	8.93600
	GRADIENT	.00030	-.00015	-.00001	.00027	-.00018	-.00233	-.00011	-.00525	.00096	.11448

SSV-ATP ORBITER B2C2D2M1F1 (ADF033) (16 FEB 73)

REFERENCE DATA

SREF = 9.2816 SQ.FT. XMRP = 43.0398 INCHES
LREF = 21.2826 INCHES YMRP = .0000 INCHES
BREF = 40.8119 INCHES ZMRP = 16.2000 INCHES
SCALE = .0403 SCALE

PARAMETRIC DATA

ALPHA = 15.000 B2FLAP = .000

RUN NO. 33/ 0 RN/L = 1.84 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	CL	CDF	CLM	CN	CAF	CLN	CSL	CY	XCP/L	L/DF
.260	-5.040	.09170	.01770	.03140	.09310	-.00060	.01120	.00120	.03100	.51650	5.17700
.260	-3.010	.09120	.01660	.03150	.09290	-.00370	.00700	.00070	.01700	.51570	4.88800
.260	-.970	.09040	.01640	.03160	.09210	-.00370	.00230	.00010	.00800	.51310	4.90200
.260	.110	.08470	.01650	.03210	.08810	-.00390	.00010	-.00020	.00000	.50240	5.13100
.260	1.010	.09210	.01740	.03210	.09340	-.00710	-.00230	-.00030	-.00400	.51360	5.26600
.260	3.020	.09230	.01700	.03210	.09350	-.00780	-.00690	-.00060	-.01500	.51400	5.41200
.260	5.010	.09260	.01650	.03140	.09370	-.00820	-.01140	-.00130	-.03000	.51720	5.59900
.260	7.040	.09320	.01580	.03090	.09410	-.00910	-.01590	-.00170	-.04600	.51990	5.69100
.260	9.090	.09100	.01500	.03130	.09170	-.00920	-.02050	-.00220	-.06900	.51480	6.03900
.260	11.070	.08940	.01500	.03220	.08970	-.01070	-.02500	-.00260	-.09200	.50780	6.83700
	GRADIENT	.00082	-.00029	.00011	.00013	-.00035	-.00231	-.00024	-.00328	-.00027	.09630

SSV-ATP ORBITER B2C2D2M1F1 (ADF034) (18 FEB 75)

REFERENCE DATA

PARAMETRIC DATA

SREF =	5.2818 SQ.FT.	XMRP =	43.0598 INCHES	ALPHA = 18.000	B2FLAP = .000
LREF =	21.2828 INCHES	YMRP =	.0000 INCHES		
BREF =	40.8119 INCHES	ZMRP =	16.2000 INCHES		
SCALE =	.0405 SCALE				

RUN NO. 34/ 0 RN/L = 1.84 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	CL	CDF	CLM	CN	CAF	CLN	CSL	CY	XCP/L	L/DF
.260	-5.030	.11700	.02660	.03410	.11950	-.01110	.01110	.00180	.03100	.55700	4.39300
.260	-2.990	.11960	.02660	.03480	.11910	-.01100	.00710	.00110	.01400	.55410	4.37100
.260	-1.000	.11590	.02640	.03510	.11840	-.01100	.00240	.00020	.00500	.55240	4.38200
.260	.000	.11680	.02620	.03520	.11920	-.01150	-.00010	-.00010	.00100	.55290	4.45300
.260	.980	.11690	.02560	.03510	.11910	-.01190	-.00250	-.00050	-.00200	.55330	4.55300
.260	3.020	.11720	.02490	.03510	.11920	-.01290	-.00720	-.00120	-.01200	.55330	4.70800
.260	5.020	.11710	.02520	.03460	.11910	-.01250	-.01140	-.00160	-.02900	.55490	4.64000
.260	7.020	.11720	.02480	.03350	.11910	-.01300	-.01340	-.00210	-.05000	.55640	4.72200
.260	9.060	.11450	.02310	.03360	.11600	-.01360	-.02000	-.00270	-.07300	.55530	4.93900
.260	11.090	.11140	.02050	.03450	.11220	-.01520	-.02440	-.00350	-.09900	.32620	5.42400
	GRADIENT	.00014	-.00029	.00004	.00005	-.00033	-.00239	-.00038	-.00425	-.00007	.03816

SSV-ATP ORBITER B2C2D2M1F1 (ADF035) (18 FEB 75)

REFERENCE DATA

PARAMETRIC DATA

SREF =	5.2818 SQ.FT.	XMRP =	43.0598 INCHES	ALPHA = 20.000	B2FLAP = .000
LREF =	21.2828 INCHES	YMRP =	.0000 INCHES		
BREF =	40.8119 INCHES	ZMRP =	16.2000 INCHES		
SCALE =	.0405 SCALE				

RUN NO. 35/ 0 RN/L = 1.84 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	CL	CDF	CLM	CN	CAF	CLN	CSL	CY	XCP/L	L/DF
.260	-5.030	.13550	.03350	.03570	.13880	-.01530	.01120	.00190	.02900	.54600	4.03500
.260	-3.000	.13320	.03440	.03700	.13690	-.01570	.00730	.00140	.01100	.54270	3.86500
.260	-1.000	.13240	.03400	.03710	.13600	-.01580	.00250	.00040	.00300	.54200	3.89100
.260	.000	.13340	.03300	.03690	.13660	-.01510	-.00010	-.00010	.00100	.54200	4.04100
.260	.990	.13270	.03220	.03730	.13570	-.01560	-.00260	-.00070	.00000	.54050	4.11700
.260	3.020	.13360	.03190	.03750	.13640	-.01620	-.00770	-.00170	-.00800	.54110	4.18700
.260	5.020	.13430	.03200	.03590	.13730	-.01640	-.01160	-.00230	-.02700	.54050	4.19500
.260	7.050	.13370	.03160	.03510	.13640	-.01650	-.01490	-.00230	-.05100	.54020	4.22100
.260	9.040	.13080	.02960	.03470	.13280	-.01730	-.01950	-.00300	-.07500	.54040	4.41100
.260	11.100	.12950	.02660	.03610	.12700	-.01620	-.02360	-.00390	-.10400	.53730	4.86400
	GRADIENT	.00008	-.00048	.00009	-.00009	-.00048	-.00251	-.00052	-.00299	-.00031	.03942

SSV-ATP ORBITER B2C2D2M1F1M2 (ADF036) (16 FEB 73)

REFERENCE DATA

SREF =	5.2818 SQ.FT.	XMRP =	43.0596 INCHES		
LREF =	21.2628 INCHES	YMRP =	.0000 INCHES		
BREF =	40.8119 INCHES	ZMRP =	16.2000 INCHES		
SCALE =	.0405 SCALE				

PARAMETRIC DATA

BETA = .000 B2FLAP = .000

RUN NO. 36/ 0 RN/L = 1.84 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CL	CDF	CLM	CN	CAF	CLN	CSL	CY	XCP/L	L/DF
.260	-5.250	-.23350	.02520	.02110	-.23480	.00370	.00010	.00030	-.00200	.68550	-9.26700
.260	-3.130	-.13060	.01600	.01060	-.13140	.01080	.00010	.00030	-.00100	.68260	-7.25200
.260	-1.000	-.03190	.01470	.00290	-.03220	.01410	.00000	.00020	.00000	.68670	-2.16800
.260	.010	.01470	.01420	.00000	.01470	.01420	.00020	.00020	.00000	.64960	1.03400
.260	1.060	.06320	.01460	-.00320	.06340	.01340	.00050	.00040	.00000	.67020	4.31500
.260	3.170	.15560	.01790	-.00690	.15640	.00920	.00030	.00050	.00000	.67270	8.68900
.260	5.280	.25060	.02490	-.01350	.25200	.00170	.00030	.00070	.00000	.67430	10.04300
.260	6.350	.29930	.02880	-.01950	.30060	-.00440	.00050	.00070	.00000	.67560	10.39000
.260	8.440	.39720	.04130	-.02790	.39900	-.01740	.00000	.00100	.00100	.67770	9.60600
.260	10.560	.49930	.05870	-.03730	.50170	-.03360	-.00100	.00120	.00400	.67940	8.49300
.260	12.700	.61100	.08360	-.05380	.61660	-.04280	.00210	.00300	-.00200	.68450	6.51100
.260	14.830	.68950	.13780	-.06470	.71150	-.04590	.00040	.00100	.00100	.68600	5.07500
.260	16.900	.77490	.18820	-.07440	.79610	-.04520	.00000	.00060	.00300	.68700	4.11600
.260	20.030	.87520	.26460	-.08190	.91290	-.05120	-.00010	-.00120	.00700	.68550	3.30700
.260	17.940	.81470	.21360	-.08050	.84090	-.04780	.00000	.00080	.00400	.68770	3.81300
.260	22.110	.92400	.32010	-.08810	.97650	-.05120	.00120	-.00160	.00600	.68570	2.88600
.260	24.100	.94460	.36750	-.08550	1.01240	-.05030	.00220	-.00120	.00600	.68340	2.57000
.260	26.150	.93900	.40310	-.07820	1.02050	-.05200	.00270	-.00410	.01200	.68030	2.32900
.260	29.220	.94440	.46170	-.07990	1.04960	-.05800	.00300	-.00630	.02300	.68010	2.04500
	GRADIENT	.04550	-.00002	-.00311	.04575	-.00026	.00004	.00004	.00014	-.00218	2.99995

SSV-ATP ORBITER B2C202M1F1W2 (ADF039) (16 FEB 73)

REFERENCE DATA

BREF = 5.2616 SQ.FT. XMRP = 43.0596 INCHES
LREF = 21.2628 INCHES YMRP = .0000 INCHES
BREF = 40.8119 INCHES ZMRP = 16.2000 INCHES
SCALE = .0405 SCALE

PARAMETRIC DATA

ALPHA = .000 B2FLAP = .000

RUN NO. 39/ 0 RN/L = 1.84 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	CL	CDF	CLM	CN	CAF	CLN	CSL	CY	XCP/L	L/DF
.260	-5.030	.01480	.01320	-.00030	.01480	.01320	.01120	-.00600	.03100	.65340	1.11800
.260	-3.010	.01470	.01390	-.00020	.01480	.01390	.00660	-.00350	.01800	.65730	1.05800
.260	-.980	.01370	.01340	.00020	.01570	.01340	.00250	-.00090	.00500	.64310	1.01900
.260	.000	.01440	.01400	.00020	.01440	.01400	.00040	.00030	.00000	.64230	1.02800
.260	1.010	.01500	.01410	.00000	.01500	.01400	-.00170	.00160	-.00700	.65240	1.06600
.260	3.030	.01470	.01250	-.00030	.01470	.01250	-.00610	.00430	-.02000	.65800	1.17900
.260	5.010	.01580	.01150	-.00060	.01580	.01150	-.01070	.00690	-.03300	.66590	1.37300
.260	7.040	.01680	.01090	-.00110	.01680	.01090	-.01550	.00940	-.04700	.67620	1.52900
.260	9.040	.01820	.00990	-.00220	.01820	.00990	-.02020	.01180	-.06100	.69690	1.82400
.260	11.070	.02110	.00690	-.00360	.02110	.00690	-.02460	.01440	-.07600	.71770	3.03500
	GRADIENT	.00006	-.00017	-.00002	.00005	-.00016	-.00213	.00129	-.00626	.00057	.02050

SSV-ATP ORBITER B2C202M1F1W2 (ADF040) (16 FEB 73)

REFERENCE DATA

BREF = 5.2616 SQ.FT. XMRP = 43.0596 INCHES
LREF = 21.2628 INCHES YMRP = .0000 INCHES
BREF = 40.8119 INCHES ZMRP = 16.2000 INCHES
SCALE = .0405 SCALE

PARAMETRIC DATA

ALPHA = 5.000 B2FLAP = .000

RUN NO. 40/ 0 RN/L = 1.84 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	CL	CDF	CLM	CN	CAF	CLN	CSL	CY	XCP/L	L/DF
.260	-5.030	.24690	.02340	-.01600	.24940	.00050	.01060	-.00040	.03900	.67540	10.57600
.260	-3.020	.24810	.02420	-.01550	.24930	.00120	.00650	.00000	.02000	.67460	10.24700
.260	-1.000	.24690	.02460	-.01560	.25000	.00160	.00250	.00050	.00600	.67460	10.06300
.260	.000	.25030	.02410	-.01580	.25150	.00100	.00050	.00060	.00000	.67490	10.37800
.260	1.010	.25120	.02400	-.01610	.25230	.00080	-.00140	.00090	-.00600	.67550	10.42500
.260	3.030	.25040	.02350	-.01620	.25150	.00040	-.00550	.00150	-.02000	.67560	11.02600
.260	5.010	.25050	.02230	-.01670	.25150	-.00090	-.00980	.00190	-.03500	.67650	11.22400
.260	7.030	.25020	.02060	-.01780	.25100	-.00230	-.01420	.00220	-.04900	.67810	11.98500
.260	9.090	.24870	.01960	-.01600	.24950	-.00330	-.01670	.00270	-.06400	.67850	12.66700
.260	11.090	.24650	.01750	-.01930	.24690	-.00550	-.02300	.00300	-.08000	.68060	14.11200
	GRADIENT	.00049	-.00013	-.00019	.00044	-.00016	-.00198	.00024	-.00033	.00017	.07362

REPRODUCIBILITY OF THE ORIGINAL PAGE IS POOR

SSV-ATP ORBITER B2C202M1F1W2 (ADF041) (16 FEB 73)

REFERENCE DATA

SREF = 5.2816 SQ.FT. XMRP = 43.0396 INCHES
LREF = 21.2628 INCHES YMRP = .0000 INCHES
BREF = 40.8119 INCHES ZMRP = 16.2000 INCHES
SCALE = .0405 SCALE

PARAMETRIC DATA

ALPHA = 10.000 B2FLAP = .000

RUN NO. 41/ 0 RN/L = 1.84 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	CL	CDF	CLM	CN	CAF	CLN	CSL	CY	XCP/L	L/DF
.260	-5.040	.50290	.06180	-.04100	.50570	-.03130	.01090	.00390	.03700	.66200	8.12900
.260	-3.020	.49730	.05880	-.03690	.49960	-.03350	.00460	.00380	.02600	.67920	8.44300
.260	-1.010	.49670	.05960	-.03680	.50120	-.03320	.00080	.00220	.01100	.67900	8.36000
.260	.000	.49960	.05900	-.03710	.50200	-.03380	-.00100	.00140	.00400	.67930	8.46500
.260	.980	.50100	.05980	-.03780	.50350	-.03320	-.00290	.00070	-.00200	.67970	8.37000
.260	3.020	.50010	.05900	-.03770	.50240	-.03590	-.00670	-.00070	-.01700	.67970	8.47400
.260	5.010	.50180	.05900	-.03970	.50410	-.03410	-.01070	-.00210	-.03200	.68120	8.49500
.260	7.050	.50360	.05890	-.04220	.50590	-.03440	-.01480	-.00320	-.04900	.68300	8.54600
.260	9.050	.50490	.05790	-.04450	.50690	-.03580	-.01980	-.00410	-.06600	.68470	8.70700
.260	11.060	.50800	.06000	-.04750	.51040	-.03430	-.02560	-.00490	-.08200	.68660	8.46000
	GRADIENT	.00053	.00004	-.00017	.00053	-.00005	-.00187	-.00075	-.00707	.00011	.00527

SSV-ATP ORBITER B2C202M1F1W2 (ADF042) (16 FEB 73)

REFERENCE DATA

SREF = 5.2816 SQ.FT. XMRP = 43.0396 INCHES
LREF = 21.2628 INCHES YMRP = .0000 INCHES
BREF = 40.8119 INCHES ZMRP = 16.2000 INCHES
SCALE = .0405 SCALE

PARAMETRIC DATA

ALPHA = 15.000 B2FLAP = .000

RUN NO. 42/ 0 RN/L = 1.84 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	CL	CDF	CLM	CN	CAF	CLN	CSL	CY	XCP/L	L/DF
.260	-5.030	.73040	.15920	-.06640	.74610	-.04630	.00660	.00600	.04100	.66630	4.58600
.260	-3.020	.73260	.16100	-.06870	.74850	-.04550	.00540	.00410	.02400	.66630	4.55000
.260	-1.010	.73440	.16160	-.06850	.75060	-.04510	.00190	.00210	.00900	.66600	4.53600
.260	-.010	.73600	.16150	-.06740	.75210	-.04560	.00020	.00140	.00200	.66540	4.55700
.260	.980	.73920	.16230	-.06790	.75540	-.04590	-.00140	.00020	-.00300	.66550	4.55300
.260	3.020	.73640	.16250	-.06890	.75470	-.04550	-.00530	-.00140	-.01600	.66510	4.54300
.260	5.000	.73160	.16310	-.06460	.74830	-.04310	-.00940	-.00630	-.02900	.66450	4.46400
.260	7.060	.72690	.16180	-.06420	.74340	-.04260	-.01350	-.01090	-.04400	.66410	4.49200
.260	9.030	.72270	.16230	-.06710	.73960	-.04130	-.01780	-.01350	-.06100	.66390	4.45000
.260	11.090	.72230	.16070	-.06730	.73870	-.04270	-.02260	-.01540	-.07900	.66600	4.49200
	GRADIENT	.00007	.00025	.00049	.00013	.00021	-.00184	-.00122	-.00660	-.00024	-.00666

REPRODUCIBILITY OF THE ORIGINAL PAGE IS POOR.

SSV-ATP ORBITER B2C202M1F1W2 (ADF043) (16 FEB 73)

REFERENCE DATA

SREF = 5.2816 SQ.FT. XMRP = 43.0596 INCHES
LREF = 21.2826 INCHES YMRP = .0000 INCHES
BREF = 40.8119 INCHES ZMRP = 16.2000 INCHES
SCALE = .0409 SCALE

PARAMETRIC DATA

ALPHA = 10.000 B2FLAP = .000

RUN NO. 43/ 0 RN/L = 1.84 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	CL	CDF	CLM	CN	CAF	CLN	CSL	CY	XCP/L	L/DF
.260	-5.040	.84060	.23590	-.07910	.87180	-.05070	.00830	.00490	.04300	.68590	3.56400
.260	-3.020	.84250	.23690	-.07840	.87370	-.05060	.00550	.00160	.02700	.68550	3.55500
.260	-1.010	.83790	.23650	-.07700	.86920	-.04940	.00250	-.00150	.01400	.68500	3.54500
.260	.010	.83670	.23550	-.07680	.86780	-.05000	.00120	-.00360	.00800	.68500	3.55100
.260	1.000	.83140	.23550	-.07550	.86280	-.04790	-.00020	-.00550	.00300	.68480	3.52900
.260	3.020	.83470	.23880	-.07780	.86700	-.04630	-.00370	-.00750	-.00900	.68550	3.49400
.260	5.020	.83230	.23780	-.07800	.86440	-.04590	-.00730	-.01200	-.02200	.68480	3.50200
.260	7.050	.83410	.23910	-.07940	.86650	-.04580	-.01080	-.01260	-.04300	.68620	3.48800
.260	9.050	.83810	.23920	-.08140	.87030	-.04660	-.01490	-.01390	-.06200	.68700	3.50200
.260	11.080	.83370	.23650	-.08220	.86530	-.04780	-.02010	-.01790	-.08200	.68760	3.52500
	GRADIENT	-.00148	.00024	.00016	-.00132	.00074	-.00148	-.00155	-.00591	-.00002	-.00968

SSV-ATP ORBITER B2C202M1F1W2 (ADF044) (16 FEB 73)

REFERENCE DATA

SREF = 5.2816 SQ.FT. XMRP = 43.0596 INCHES
LREF = 21.2826 INCHES YMRP = .0000 INCHES
BREF = 40.8119 INCHES ZMRP = 16.2000 INCHES
SCALE = .0409 SCALE

PARAMETRIC DATA

ALPHA = 20.000 B2FLAP = .000

RUN NO. 44/ 0 RN/L = 1.84 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	CL	CDF	CLM	CN	CAF	CLN	CSL	CY	XCP/L	L/DF
.260	-5.010	.89340	.28820	-.08590	.93730	-.05230	.00840	.00660	.03900	.68610	3.09900
.260	-3.000	.89090	.29170	-.08610	.94160	-.05010	.00620	.00330	.02000	.68610	3.07500
.260	-.980	.89870	.29330	-.08660	.94220	-.04860	.00360	-.00060	.01000	.68630	3.05700
.260	.030	.89800	.29520	-.08660	.94410	-.04740	.00200	-.00220	.00800	.68630	3.04100
.260	1.010	.89840	.29430	-.08640	.94230	-.04780	-.00010	-.00400	.00300	.68540	3.04500
.260	3.040	.89580	.29450	-.08580	.94160	-.04700	-.00330	-.00660	-.00600	.68600	3.04000
.260	5.030	.89700	.29340	-.08760	.94260	-.04830	-.00590	-.01110	-.02100	.68670	3.03300
.260	7.050	.89840	.29180	-.08950	.94140	-.05000	-.00990	-.01270	-.04200	.68760	3.07100
.260	9.080	.90340	.29420	-.09180	.94660	-.04990	-.01420	-.01540	-.06200	.68830	3.07000
.260	11.120	.90490	.29340	-.09100	.94990	-.05170	-.01830	-.01830	-.08700	.68790	3.08300
	GRADIENT	-.00021	.00047	.00015	-.00002	.00050	-.00160	-.00170	-.00423	-.00006	-.00393

SSV-ATP ORBITER B2C2D2M1F1W2V3K2 (ADF063) (16 FEB 75)

REFERENCE DATA

SREF = 5.2816 SQ.FT. XMRP = 43.0396 INCHES
LREF = 21.2828 INCHES YMRP = .0000 INCHES
BREF = 40.8119 INCHES ZMRP = 16.2000 INCHES
SCALE = .0405 SCALE

PARAMETRIC DATA

BETA = .000 B2FLAP = .000
MACH = .165

RUN NO. 63/ 0 RN/L = 1.64 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CL	CDF	CLM	CN	CAF	CLN	CSL	CY	XCP/L	L/DF
.165	-5.150	-.23250	.02670	.02050	-.23390	.00570	.00160	.00070	-.00500	.68480	-8.69500
.165	-3.030	-.13280	.01660	.01100	-.13360	.01170	.00130	1090	-.00400	.68260	-7.04700
.165	-1.020	-.03900	.01680	.00410	-.03930	.01610	.00120	-.00080	-.00300	.69140	-2.31400
.165	.010	.00570	.01950	.00140	.00570	.01550	.00100	-.00060	-.00200	.54930	.37000
.165	1.030	.05190	.01580	-.00130	.05220	.01490	.00100	-.00070	-.00200	.66000	5.26900
.165	3.090	.14390	.02050	-.00680	.14480	.01260	.00100	-.00040	-.00100	.66860	7.02200
.165	5.160	.23670	.02520	-.01330	.24000	.00360	.00100	-.00030	.00000	.67200	9.44600
.165	6.180	.28400	.03020	-.01660	.28560	-.00050	.00090	-.00050	.00000	.67310	9.39100
.165	8.260	.38080	.04260	-.02580	.38300	-.01250	.00050	.00000	.00200	.67660	8.92100
.165	10.340	.48430	.05990	-.03750	.48720	-.02790	.00020	-.00040	.00300	.68040	8.07400
.165	12.400	.58670	.08610	-.05140	.59200	-.04000	.00240	.00070	.00000	.68440	6.85900
.165	14.460	.67930	.12570	-.06370	.68920	-.04780	.00210	.00070	.00100	.68660	5.40100
.165	16.530	.75110	.17360	-.07350	.76950	-.04700	.00110	-.00050	.00400	.68780	4.31900
.165	17.550	.78760	.19980	-.07970	.81120	-.04700	.00130	-.00010	.00300	.68860	3.94100
.165	19.620	.86620	.25510	-.09100	.90340	-.05120	.00090	-.00060	.00400	.68980	3.40200
.165	21.650	.91540	.30850	-.09320	.96470	-.05090	.00060	-.00210	.00600	.68820	2.96600
.165	23.710	.95440	.36340	-.09720	1.02000	-.05100	.00150	.00000	.00200	.68770	2.62600
.165	25.720	.95740	.40390	-.09060	1.03780	-.05170	.00170	-.00090	.00400	.68460	2.37000
.165	28.740	.95000	.45910	-.08620	1.05370	-.05430	.00160	.00080	.00000	.68310	2.06900
	GRADIENT	.04512	.00021	-.00288	.04540	.00007	-.00005	.00008	.00049	-.00337	2.34098

BSV-ATP ORBITER B2C2D2M1F1W2V3K2 (ADFD64) (16 FEB 73)

REFERENCE DATA

SREF = 9.2816 SQ.FT. XMRP = 43.0396 INCHES
LREF = 21.2628 INCHES YMRP = .0000 INCHES
BREF = 40.6119 INCHES ZMRP = 16.2000 INCHES
SCALE = .0405 SCALE

PARAMETRIC DATA

BETA = .000 B2FLAP = .000
MACH = .260

RUN NO. 64/ 0 RN/L = 1.84 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CL	CDF	CLM	CN	CAF	CLN	CSL	CY	XCP/L	L/DF
.260	-5.260	-.23800	.02640	.02150	-.23940	.00450	.00160	-.00080	-.00600	.68560	-8.98700
.260	-3.140	-.13560	.01980	.01150	-.13670	.01230	.00160	-.00070	-.00500	.68350	-6.83700
.260	-1.020	-.03730	.01640	.00450	-.03780	.01570	.00160	-.00060	-.00400	.69730	-2.27700
.260	.090	.01080	.01540	.00160	.01080	.01540	.00150	-.00050	-.00400	.59030	.70100
.260	.090	.00640	.01520	.00140	.00640	.01520	.00150	-.00060	-.00400	.58190	.93000
.260	1.050	.03600	.01610	-.00190	.03620	.01510	.00140	-.00050	-.00300	.66390	3.47000
.260	3.150	.14850	.01880	-.00780	.14930	.01060	.00130	-.00030	-.00200	.67030	7.88800
.260	5.260	.24430	.02560	-.01410	.24560	.00500	.00130	-.00020	-.00100	.67270	9.53600
.260	6.350	.29310	.03150	-.01600	.29460	-.00110	.00120	-.00030	.00000	.67410	9.30400
.260	8.430	.39190	.04170	-.02660	.39360	-.01610	.00060	.00000	.00100	.67680	9.38600
.260	10.370	.49360	.05970	-.03770	.49840	-.03230	-.00020	.00020	.00300	.67990	8.30300
.260	12.690	.60920	.09210	-.05400	.61450	-.04390	.00190	.00040	.00000	.68470	6.60900
.260	14.800	.69710	.13730	-.06550	.70900	-.04550	.00150	.00040	.00100	.68650	5.07500
.260	16.900	.77030	.16710	-.07340	.79140	-.04490	.00120	-.00030	.00200	.68770	4.11300
.260	17.950	.81220	.21450	-.08270	.83860	-.04620	.00100	-.00050	.00300	.68900	3.78900
.260	20.040	.88100	.26700	-.08820	.91910	-.05110	.00130	-.00160	.00600	.68790	3.29900
.260	22.130	.92880	.32170	-.09060	.96160	-.05190	.00220	-.00390	.00900	.68650	2.88700
.260	24.190	.95720	.37330	-.09030	1.02610	-.05170	.00320	-.00190	.00600	.68480	2.56300
.260	26.210	.94480	.40670	-.07930	1.02730	-.05230	.00260	-.00190	.00700	.66050	2.32200
.260	29.210	.94230	.46140	-.07790	1.04760	-.05720	.00240	-.00750	.02600	.67940	2.04200
	GRADIENT	.04519	-.00016	-.00304	.04546	-.00027	-.00009	.00036	.00048	-.00356	2.38380

SSV-ATP ORBITER B2C202M1F1W2V3K2 (ADFD65) (16 FEB 73)

REFERENCE DATA

SREF = 3.2816 SQ.FT. XMRP = 43.0596 INCHES
LREF = 21.2828 INCHES YMRP = .0000 INCHES
BREF = 40.8119 INCHES ZMRP = 16.2000 INCHES
SCALE = .0403 SCALE

PARAMETRIC DATA

ALPHA = .000 B2FLAP = .000

RUN NO. 65/ 0 RN/L = 1.84 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	CL	CDF	CLM	CN	CAF	CLN	CSL	CY	XCP/L	L/DF
.260	-5.070	.01330	.01330	-.00240	.01330	.01330	-.00480	.00040	.07700	.72290	1.00200
.260	-3.030	.01100	.01560	-.00060	.01100	.01560	-.00220	.00000	.04400	.67430	.70700
.260	-.960	.00850	.01630	.00040	.00850	.01630	.00070	-.00060	.01000	.62400	.40300
.260	-.050	.00920	.01590	.00060	.00920	.01590	.00180	-.00050	-.00400	.62250	.57900
.260	.960	.00990	.01550	.00050	.00990	.01550	.00260	-.00060	-.02000	.63410	.63600
.260	3.030	.00850	.01450	-.00040	.00850	.01450	.00560	-.00100	-.05300	.67000	.58600
.260	5.020	.00900	.01120	-.00160	.00900	.01120	.00790	-.00140	-.08500	.75220	.80000
.260	7.040	.00960	.01000	-.00310	.00960	.01000	.00970	-.00120	-.11700	.77870	.95500
.260	9.060	.01140	.00720	-.00440	.01140	.00720	.01040	.00000	-.14600	.80310	1.58900
.260	11.110	.01590	.00520	-.00580	.01590	.00520	.01050	.00110	-.17400	.79520	3.06600
	GRADIENT	-.00021	-.00020	.00002	-.00021	-.00020	.00127	-.00015	-.01594	-.00010	-.00641

SSV-ATP ORBITER B2C202M1F1W2V3K2 (ADFD66) (16 FEB 73)

REFERENCE DATA

SREF = 3.2816 SQ.FT. XMRP = 43.0596 INCHES
LREF = 21.2828 INCHES YMRP = .0000 INCHES
BREF = 40.8119 INCHES ZMRP = 16.2000 INCHES
SCALE = .0403 SCALE

PARAMETRIC DATA

ALPHA = 5.000 B2FLAP = .000

RUN NO. 66/ 0 RN/L = 1.84 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	CL	CDF	CLM	CN	CAF	CLN	CSL	CY	XCP/L	L/DF
.260	-5.070	.24780	.02290	-.01660	.24860	.00000	-.00370	.00360	.08100	.67960	10.78900
.260	-3.030	.24640	.02500	-.01640	.24770	.00220	-.00270	.00210	.04700	.67620	9.83400
.260	-1.010	.24560	.02560	-.01530	.24700	.00290	.00040	.00050	.01300	.67430	9.36900
.260	-.010	.24500	.02570	-.01510	.24640	.00300	.00130	-.00020	-.00100	.67430	9.31900
.260	1.010	.24560	.02530	-.01560	.24690	.00260	.00290	-.00070	-.01600	.67550	9.67600
.260	3.020	.24460	.02390	-.01690	.24570	.00120	.00590	-.00230	-.05200	.67730	10.23200
.260	5.020	.24300	.02220	-.01810	.24400	-.00020	.00880	-.00370	-.08600	.67840	10.30900
.260	7.070	.24320	.01930	-.01950	.24600	-.00320	.01090	-.00490	-.11900	.68150	12.69500
.260	9.070	.24490	.01860	-.02130	.24960	-.00390	.01220	-.00570	-.15000	.68430	15.12500
.260	11.110	.24670	.01920	-.02250	.24700	-.00730	.01270	-.00600	-.18000	.68610	16.14700
	GRADIENT	-.00027	-.00018	-.00010	-.00030	-.00016	.00140	-.00071	-.01621	.00020	.00345

SSV-ATP ORBITER B2C2D2M1F1W2V3K2 (ADF067) (16 FEB 75)

REFERENCE DATA

SREF =	9.2618 SQ.FT.	XMRP =	43.0596 INCHES
LREF =	21.2628 INCHES	YMRP =	.0000 INCHES
BREF =	40.8119 INCHES	ZMRP =	16.2000 INCHES
SCALE =	.0405 SCALE		

PARAMETRIC DATA

ALPHA = 10.000 B2FLAP = .000

RUN NO. 67/ 0 RN/L = 1.84 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	CL	CDF	CLM	CN	CAF	CLN	CSL	CY	XCP/L	L/DF
.260	-5.090	.49660	.05750	-.04220	.49870	-.03440	-.00760	.00670	.06300	.66350	8.63500
.260	-3.050	.49560	.05910	-.03980	.49800	-.03260	-.00470	.00440	.05000	.66160	8.37500
.260	-1.010	.49540	.05990	-.03870	.49800	-.03160	-.00140	.00160	.01800	.66070	8.25900
.260	.000	.49630	.06150	-.03870	.49910	-.03080	.00010	.00060	.00100	.66070	8.09500
.260	1.000	.49770	.06060	-.03910	.50030	-.03160	.00150	-.00070	-.01400	.66090	8.21000
.260	3.030	.49770	.05900	-.04110	.50010	-.03320	.00500	-.00330	-.04600	.66250	8.43500
.260	5.030	.50070	.05640	-.04310	.50290	-.03440	.00800	-.00560	-.08300	.66390	8.57300
.260	7.090	.50010	.05610	-.04490	.50190	-.03640	.01030	-.00750	-.11700	.66540	8.90300
.260	9.100	.49960	.05560	-.04710	.50130	-.03670	.01150	-.00920	-.15000	.66720	8.98600
.260	11.110	.50310	.05620	-.04990	.50490	-.03660	.01120	-.01020	-.18100	.66910	8.94000
	GRADIENT	.00042	.00002	-.00021	.00042	-.00006	.00158	-.00126	-.01610	.00014	.00868

SSV-ATP ORBITER B2C2D2M1F1W2V3K2 (ADF068) (16 FEB 75)

REFERENCE DATA

SREF =	9.2618 SQ.FT.	XMRP =	43.0596 INCHES
LREF =	21.2628 INCHES	YMRP =	.0000 INCHES
BREF =	40.8119 INCHES	ZMRP =	16.2000 INCHES
SCALE =	.0405 SCALE		

PARAMETRIC DATA

ALPHA = 15.000 B2FLAP = .000

RUN NO. 68/ 0 RN/L = 1.84 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	CL	CDF	CLM	CN	CAF	CLN	CSL	CY	XCP/L	L/DF
.260	-5.070	.73210	.10650	-.07370	.74760	-.04760	-.00720	.00720	.08100	.66900	6.82500
.260	-3.040	.73260	.10120	-.07220	.74880	-.04490	-.00390	.00380	.04900	.66810	6.84200
.260	-1.010	.73260	.10230	-.07060	.74910	-.04390	-.00010	.00060	.01700	.66730	6.91100
.260	-.020	.73190	.10230	-.07000	.74840	-.04370	.00160	-.00050	.00200	.66700	6.90600
.260	1.000	.73340	.10260	-.07060	.74990	-.04370	.00320	-.00200	-.01200	.66720	6.90400
.260	3.030	.73660	.10030	-.07120	.75260	-.04700	.00750	-.00410	-.04600	.66740	6.89400
.260	5.040	.73390	.10920	-.07120	.75190	-.04790	.01040	-.00700	-.08100	.66750	6.82000
.260	7.090	.72810	.10780	-.06980	.74390	-.04710	.01230	-.01340	-.11000	.66700	6.81800
.260	9.190	.73050	.10690	-.07250	.74610	-.04670	.01420	-.01670	-.14500	.66640	6.89600
.260	11.110	.72660	.10970	-.07500	.74420	-.04620	.01460	-.01950	-.17700	.66590	6.90000
	GRADIENT	.00066	-.00011	.00015	.00080	-.00030	.00165	-.00131	-.01585	-.00011	.00739

SSV-ATP ORBITER B2C202H1F1W2V3K2 (ADF069) (16 FEB 73)

REFERENCE DATA

SREF = 3.2616 SQ.FT. XMRP = 43.0596 INCHES
LREF = 21.2626 INCHES YMRP = .0000 INCHES
BREF = 40.8119 INCHES ZMRP = 16.2000 INCHES
SCALE = .0405 SCALE

PARAMETRIC DATA

ALPHA = 16.000 B2FLAP = .000

RUN NO. 69/ 0 RN/L = 1.64 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	CL	CDF	CLM	CN	CAF	CLN	CSL	CY	XCP/L	L/DF
.260	-5.060	.65400	.25610	-.06860	.68500	-.05330	-.00640	.00400	.06600	.68970	3.56600
.260	-3.030	.64930	.23900	-.06360	.68060	-.05080	-.00510	.00150	.05300	.68850	3.55200
.260	-1.020	.64200	.23630	-.06260	.67580	-.04830	-.00050	-.00220	.02500	.68740	3.53200
.260	-.020	.64220	.23930	-.06220	.67430	-.04790	.00150	-.00360	.00700	.68720	3.51600
.260	.990	.64120	.23600	-.06330	.67290	-.04820	.00360	-.00440	-.00800	.68770	3.53300
.260	3.030	.63640	.23790	-.06320	.67020	-.04820	.00810	-.00690	-.03600	.68780	3.52400
.260	5.030	.63640	.23700	-.06490	.66990	-.04880	.01150	-.01240	-.07100	.68860	3.53700
.260	7.070	.63350	.23460	-.06400	.66460	-.04920	.01440	-.01630	-.10500	.68840	3.54900
.260	9.060	.63360	.23420	-.06550	.66450	-.04950	.01740	-.01940	-.14200	.68910	3.55600
.260	11.110	.63490	.23330	-.06800	.66540	-.05110	.01750	-.02070	-.17700	.69020	3.57800
	GRADIENT	-.00165	-.00018	.00035	-.00162	.00039	.00217	-.00165	-.01506	-.00009	-.00410

SSV-ATP ORBITER B2C202H1F1W2V3K2 (ADF070) (16 FEB 73)

REFERENCE DATA

SREF = 3.2616 SQ.FT. XMRP = 43.0596 INCHES
LREF = 21.2626 INCHES YMRP = .0000 INCHES
BREF = 40.8119 INCHES ZMRP = 16.2000 INCHES
SCALE = .0405 SCALE

PARAMETRIC DATA

ALPHA = 20.000 B2FLAP = .000

RUN NO. 70/ 0 RN/L = 1.64 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	CL	CDF	CLM	CN	CAF	CLN	CSL	CY	XCP/L	L/DF
.260	-5.060	.89690	.28690	-.09020	.94270	-.05340	-.00980	.00730	.07900	.68780	3.11000
.260	-3.040	.89380	.29110	-.08700	.93870	-.04970	-.00520	.00210	.03100	.68660	3.07000
.260	-1.010	.89050	.29300	-.08660	.94190	-.04910	.00020	-.00240	.02300	.68640	3.05900
.260	-.030	.89080	.29440	-.08860	.94260	-.04790	.00240	-.00410	.00900	.68630	3.04600
.260	.980	.89940	.29440	-.08800	.94510	-.04820	.00480	-.00500	-.00800	.68680	3.05400
.260	3.030	.89890	.29390	-.08920	.94450	-.04890	.00970	-.00880	-.03700	.68740	3.05600
.260	5.100	.89410	.28840	-.09100	.93610	-.05010	.01310	-.01390	-.06800	.68640	3.09900
.260	7.060	.89980	.29100	-.09340	.94410	-.05140	.01880	-.01700	-.10100	.69000	3.09100
.260	9.110	.89880	.28750	-.09700	.94210	-.05420	.01920	-.01980	-.13600	.69070	3.12500
.260	11.110	.90340	.28690	-.09870	.94680	-.05540	.01950	-.02080	-.17700	.69120	3.12600
	GRADIENT	.00090	.00048	-.00039	.00102	.00018	.00244	-.00179	-.01491	.00014	-.00201

SSV-ATP ORBITER B2C202H1F1W2V3K2 (ADF071) (16 FEB 73)

REFERENCE DATA

SREF = 5.2616 SQ.FT. XMRP = 43.0596 INCHES
LREF = 21.2626 INCHES YMRP = .0000 INCHES
BREF = 40.6119 INCHES ZMRP = 16.2000 INCHES
SCALE = .0405 SCALE

PARAMETRIC DATA

BETA = 5.000 B2FLAP = .000
MACH = .260

RUN NO. 71/ 0 RN/L = 1.84 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CL	CDF	CLM	CN	CAF	CLN	CSL	CY	XCP/L	L/DF
.260	-5.260	-.23140	.02380	.01770	-.23270	.00240	.00790	.00190	-.08600	.68010	-9.72500
.260	-3.150	-.13240	.01880	.00820	-.13320	.01140	.00780	.00050	-.08500	.67440	-7.04200
.260	-1.040	-.03620	.01350	.00090	-.03640	.01280	.00780	-.00080	-.08500	.66020	-2.68000
.260	.010	.00640	.01330	-.00170	.00640	.01330	.00780	-.00140	-.08400	.73390	.63500
.260	1.030	.03560	.01340	-.00480	.03600	.01240	.00800	-.00210	-.08500	.68440	4.14100
.260	3.150	.14930	.01690	-.01090	.15000	.00860	.00820	-.00310	-.08500	.67890	8.83400
.260	5.270	.24410	.02340	-.01780	.24530	.00080	.00850	-.00400	-.08400	.67870	10.43400
.260	6.340	.29420	.02790	-.02160	.29550	-.00470	.00870	-.00420	-.08500	.67920	10.54300
.260	8.440	.38480	.04080	-.03130	.39650	-.01750	.00840	-.00470	-.08400	.68130	9.65700
.260	10.550	.49010	.05850	-.04260	.50130	-.03390	.00770	-.00540	-.08200	.68360	8.53000
.260	12.700	.60430	.08620	-.05540	.60850	-.04870	.00570	-.00640	-.07800	.68600	7.00300
.260	14.830	.70140	.13690	-.06660	.71310	-.04720	.01000	-.00650	-.08200	.68610	5.12500
.260	16.870	.77740	.18530	-.07960	.79770	-.04620	.01070	-.00600	-.08200	.68950	4.19500
.260	17.950	.81980	.21140	-.08560	.84510	-.05150	.01080	-.00540	-.08200	.69000	3.87700
.260	19.980	.87050	.26080	-.08590	.90720	-.05210	.01120	-.01190	-.07000	.68740	3.33700
.260	22.110	.92600	.32090	-.09480	.97870	-.05120	.01440	-.01200	-.06600	.68690	2.88500
.260	24.160	.95240	.36940	-.09310	1.02020	-.05270	.01240	-.00320	-.07400	.68610	2.57800
.260	26.160	.96400	.41110	-.09220	1.04650	-.05640	.01110	.00240	-.08300	.68480	2.34400
.260	29.230	.95970	.46340	-.09120	1.08460	-.06260	.01660	.00110	-.07800	.68390	2.06100
	GRADIENT	.04463	-.00026	-.00300	.04466	-.00042	.00007	-.00056	.00000	.00161	2.99363

SSV-ATP ORBITER S2C2D2M1F1W2V3K2 (ADF072) (16 FEB 73)

REFERENCE DATA

SREF = 5.2616 SQ.FT. XMRP = 43.0596 INCHES
LREF = 21.2828 INCHES YMRP = .0000 INCHES
BREF = 40.8119 INCHES ZMRP = 16.2000 INCHES
SCALE = .0409 SCALE

PARAMETRIC DATA

BETA = .000 B2FLAP = -12.000

RUN NO. 72/ 0 RN/L = 1.84 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CL	CDF	CLM	CN	CAF	CLN	CSL	CY	XCP/L	L/DF
.260	-5.270	-.26620	.03250	.03980	-.26810	.00780	.00150	-.00090	-.00600	.70880	-8.19000
.260	-3.160	-.16490	.02470	.02940	-.16600	.01550	.00140	-.00090	-.00500	.72030	-6.67500
.260	-1.060	-.06640	.02040	.02190	-.06880	.01910	.00140	-.00080	-.00500	.77620	-3.34900
.260	.010	-.01920	.01910	.01910	-.01920	.01910	.00140	-.00060	-.00400	1.04470	-1.00700
.260	1.040	.02790	.01920	.01610	.02850	.01870	.00150	-.00050	-.00400	.42430	1.45500
.260	3.140	.12040	.02200	.01120	.12140	.01550	.00130	-.00030	-.00300	.61340	5.47300
.260	5.240	.21500	.02720	.00440	.21660	.00740	.00130	-.00020	-.00200	.64160	7.89800
.260	6.320	.26450	.03110	.00090	.26640	.00160	.00120	-.00030	-.00100	.64860	8.48600
.260	8.420	.36230	.04240	-.00820	.36480	-.01100	.00070	.00010	.00000	.65890	8.53100
.260	10.560	.46620	.05850	-.01870	.46910	-.02790	.00000	.00010	.00200	.66360	7.96700
.260	12.700	.56170	.09030	-.03620	.56730	-.03970	.00210	.00040	.00000	.67440	6.44000
.260	14.600	.67050	.13310	-.04890	.66210	-.04250	.00210	.00060	.00000	.67720	5.03500
.260	16.870	.75850	.18110	-.05310	.75930	-.04100	.00150	-.00050	.00200	.67870	4.07600
.260	17.900	.78020	.20760	-.06220	.80630	-.04200	.00150	-.00110	.00400	.68050	3.73300
.260	20.020	.85010	.25610	-.06700	.86710	-.04850	.00140	-.00160	.00500	.67990	3.29300
.260	22.100	.89140	.30960	-.06560	.94240	-.04860	.00160	-.00260	.00800	.67760	2.87600
.260	24.190	.91410	.35610	-.06190	.97980	-.04900	.00320	-.00360	.00900	.67500	2.56600
.260	26.170	.90550	.39150	-.05260	.98540	-.04790	.00380	-.00310	.00900	.67120	2.31200
.260	29.190	.88400	.43320	-.04350	.98510	-.05290	.00330	-.00480	.02000	.66740	2.04000
	GRADIENT	.04934	-.00044	-.01288	.04566	-.00005	-.00001	.00010	.00033	-.03173	1.96399

SSV-ATP ORBITER B2C2D2H1W2V3K2 (ADF073) (16 FEB 73)

REFERENCE DATA

BREF = 9.2816 SQ.FT. XMRP = 43.0396 INCHES
LREF = 21.2826 INCHES YMRP = .0000 INCHES
BREF = 40.8119 INCHES ZMRP = 16.2000 INCHES
SCALE = .0405 SCALE

PARAMETRIC DATA

BETA = .000

RUN NO. 73/ 0 RN/L = 1.84 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CL	CDF	CLM	CN	CAF	CLN	CSL	CY	XCP/L	L/DF
.260	-5.260	-.24340	.02840	.02980	-.24500	.00590	.00170	-.00090	-.00600	.69170	-8.56400
.260	-3.160	-.14390	.01960	.01650	-.14480	.01160	.00170	-.00070	-.00600	.69500	-7.25300
.260	-1.060	-.04650	.01730	.00910	-.04690	.01650	.00150	-.00060	-.00400	.72740	-2.68100
.260	.010	.00190	.01610	.00620	.00190	.01610	.00140	-.00050	-.00400	-.60670	.12100
.260	1.060	.04940	.01660	.00300	.04970	.01570	.00140	-.00040	-.00400	.62560	2.96300
.260	3.150	.14190	.01960	-.00230	.14280	.01200	.00120	-.00020	-.00300	.65650	7.14400
.260	5.270	.23690	.02520	-.00900	.23780	.00840	.00110	-.00040	-.00100	.66500	9.36000
.260	6.310	.28500	.03000	-.01250	.28660	-.00150	.00120	-.00030	-.00100	.66720	9.49700
.260	8.430	.38440	.04160	-.02160	.38630	-.01520	.00060	.00000	.00000	.67220	9.23100
.260	10.560	.48780	.05880	-.03140	.49030	-.03160	-.00010	.00020	.00200	.67550	8.29400
.260	12.690	.60000	.09170	-.04790	.60550	-.04220	.00210	.00030	.00000	.68130	6.53700
.260	14.790	.68690	.13450	-.05740	.69850	-.04530	.00190	.00040	.00000	.68250	5.10600
.260	16.890	.75600	.18440	-.06500	.77690	-.04370	.00140	-.00030	.00100	.68300	4.10800
.260	17.940	.79690	.21090	-.07040	.82300	-.04320	.00120	-.00060	.00300	.68380	3.78500
.260	20.030	.86060	.26060	-.07250	.89810	-.04980	.00100	-.00190	.00600	.68190	3.30000
.260	22.100	.89350	.30950	-.06990	.94620	-.05010	.00230	-.00420	.01000	.67920	2.89300
.260	24.090	.91930	.35610	-.06800	.98460	-.04960	.00340	-.00220	.00600	.67750	2.58100
.260	26.160	.91930	.39320	-.06110	.99490	-.05100	.00290	-.00240	.00900	.67430	2.32700
.260	28.200	.90770	.44250	-.05870	1.00820	-.05670	.00310	-.00450	.01800	.67220	2.05200
	GRADIENT	.04529	-.00004	-.00297	.04558	-.00001	-.00008	.00006	.00043	-.01093	2.32029

SSV-ATP ORBITER B2C2D2M1W2V3K2 (ADF074) (16 FEB 73)

REFERENCE DATA

SREF = 9.2616 SQ.FT. XMRP = 43.0596 INCHES
LREF = 21.2628 INCHES YMRP = .0000 INCHES
BREF = 40.8119 INCHES ZMRP = 16.2000 INCHES
SCALE = .0409 SCALE

PARAMETRIC DATA

ALPHA = .000

RUN NO. 74/ 0 RN/L = 1.84 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	CL	CDF	CLM	CN	CAF	CLN	CSL	CY	XCP/L	L/DF
.260	-5.050	.00450	.01360	.00340	.00450	.01360	-.00510	.00040	.07900	.34940	.33400
.260	-3.020	.00500	.01420	.00450	.00500	.01420	-.00260	.00000	.04600	.29210	.35400
.260	-1.000	.00340	.01690	.00360	.00340	.01690	.00040	-.00050	.01200	.00810	.20300
.260	.000	.00270	.01670	.00600	.00270	.01670	.00160	-.00050	-.00400	-.20070	.16600
.260	1.020	.00250	.01650	.00580	.00250	.01650	.00290	-.00040	-.02000	-.24510	.15600
.260	3.040	.00130	.01250	.00360	.00130	.01250	.00810	-.00130	-.08600	-.42170	.10700
.260	7.080	.00160	.01000	.00250	.00160	.01000	.01020	-.00100	-.11800	.12970	.16100
.260	9.090	.00330	.00830	.00100	.00530	.00830	.01060	.00000	-.14800	.56900	.63500
.260	11.130	.00650	.00480	-.00010	.00650	.00480	.01110	.00120	-.17600	.63790	1.76800
	GRADIENT	-.00065	.00059	.00035	-.00065	.00059	.00136	-.00011	-.01636	-.14022	-.05092

SSV-ATP ORBITER B2C2D2M1W2V3K2 (ADF075) (16 FEB 73)

REFERENCE DATA

SREF = 9.2616 SQ.FT. XMRP = 43.0596 INCHES
LREF = 21.2628 INCHES YMRP = .0000 INCHES
BREF = 40.8119 INCHES ZMRP = 16.2000 INCHES
SCALE = .0409 SCALE

PARAMETRIC DATA

ALPHA = 5.000

RUN NO. 75/ 0 RN/L = 1.84 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	CL	CDF	CLM	CN	CAF	CLN	CSL	CY	XCP/L	L/DF
.260	-5.070	.24210	.02310	-.01280	.24320	.00070	-.00610	.00350	.08100	.67080	10.47100
.260	-3.020	.24060	.02350	-.01110	.24200	.00320	-.00320	.00190	.04600	.66620	9.43700
.260	-1.010	.23890	.02660	-.01000	.24030	.00450	.00000	.00010	.01500	.66650	8.93800
.260	.000	.23770	.02660	-.00940	.23920	.00480	.00130	-.00040	-.00100	.66550	8.66100
.260	1.000	.23730	.02650	-.00980	.23870	.00440	.00260	-.00110	-.01700	.66620	8.99800
.260	3.030	.23670	.02490	-.01040	.23790	.00270	.00590	-.00240	-.05500	.66730	9.62400
.260	5.050	.23660	.02180	-.01210	.23770	.00000	.00900	-.00390	-.08600	.67020	10.61100
.260	7.040	.23690	.01970	-.01340	.23770	-.00200	.01140	-.00510	-.12000	.67250	11.98700
.260	9.090	.23830	.01740	-.01480	.23890	-.00450	.01260	-.00570	-.15100	.67460	13.66700
.260	11.120	.23730	.01540	-.01540	.23770	-.00630	.01300	-.00590	-.18100	.67570	15.31400
	GRADIENT	-.00088	-.00018	.00011	-.00009	-.00008	.00148	-.00068	-.01662	-.00015	.02999

SSV-ATP ORBITER B2C202M1W2V3K2 (ADF076) (16 FEB 73)

REFERENCE DATA

SREF = 9.2816 SQ.FT. XMRP = 43.0596 INCHES
LREF = 21.2626 INCHES YMRP = .0000 INCHES
BREF = 40.8119 INCHES ZMRP = 16.2000 INCHES
SCALE = .0405 SCALE

PARAMETRIC DATA

ALPHA = 10.000

RUN NO. 76/ 0 RN/L = 1.84 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	CL	CDF	CLM	CN	CAF	CLN	CSL	CY	XCP/L	L/DF
.260	-5.060	.49190	.05820	-.03660	.49420	-.03290	-.00690	.00560	.06300	.67930	8.44400
.260	-3.040	.48780	.05840	-.03310	.49020	-.03160	-.00510	.00420	.05200	.67670	8.34000
.260	-.980	.48780	.05970	-.03160	.49050	-.03060	-.00140	.00160	.01600	.67560	8.16000
.260	-.010	.48920	.05950	-.03180	.49180	-.03110	.00000	.00040	.00100	.67560	8.21500
.260	1.010	.48850	.05990	-.03230	.49110	-.03100	.00150	-.00070	-.01400	.67600	8.20700
.260	3.010	.48930	.05810	-.03360	.49170	-.03250	.00510	-.00280	-.04900	.67700	8.42200
.260	5.040	.48830	.05630	-.03540	.49040	-.03390	.00620	-.00520	-.08300	.67860	8.66000
.260	7.060	.48940	.05420	-.03720	.49100	-.03620	.01100	-.00740	-.11800	.67990	9.02300
.260	9.110	.49010	.05400	-.03900	.49170	-.03660	.01240	-.00920	-.15200	.68130	9.06800
.260	11.110	.49100	.05400	-.04060	.49260	-.03680	.01180	-.01070	-.18200	.68280	9.08100
	GRADIENT	.00020	-.00005	-.00010	.00025	-.00012	.00166	-.00116	-.01662	.00006	.01431

SSV-ATP ORBITER B2C202M1W2V3K2 (ADF077) (16 FEB 73)

REFERENCE DATA

SREF = 9.2816 SQ.FT. XMRP = 43.0596 INCHES
LREF = 21.2626 INCHES YMRP = .0000 INCHES
BREF = 40.8119 INCHES ZMRP = 16.2000 INCHES
SCALE = .0405 SCALE

PARAMETRIC DATA

ALPHA = 15.000

RUN NO. 77/ 0 RN/L = 1.84 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	CL	CDF	CLM	CN	CAF	CLN	CSL	CY	XCP/L	L/DF
.260	-5.040	.71700	.15540	-.06260	.73220	-.04560	-.00750	.00670	.06200	.68360	4.61300
.260	-3.020	.71660	.15760	-.06120	.73250	-.04350	-.00420	.00330	.03000	.68310	4.54000
.260	-1.000	.71750	.15920	-.06060	.73360	-.04210	.00000	.00060	.01200	.68260	4.50400
.260	.000	.71640	.15920	-.06010	.73270	-.04160	.00160	-.00070	.00200	.68240	4.49700
.260	1.020	.71620	.15910	-.06050	.73440	-.04210	.00330	-.00190	-.01300	.68260	4.51900
.260	3.040	.72030	.15780	-.06240	.73600	-.04440	.00740	-.00410	-.04600	.68350	4.56400
.260	5.070	.72200	.15520	-.06350	.73700	-.04710	.01090	-.00620	-.08400	.68410	4.63000
.260	7.060	.72510	.15300	-.06340	.73750	-.04970	.01350	-.00980	-.11700	.68400	4.72300
.260	9.090	.71450	.15220	-.06090	.72900	-.04830	.01480	-.01620	-.14700	.68310	4.69100
.260	11.130	.71030	.15360	-.06210	.72920	-.04570	.01300	-.01980	-.17600	.68390	4.62100
	GRADIENT	.00038	-.00001	-.00019	.00055	-.00017	.00188	-.00124	-.01600	.00006	.00405

SSV-ATP ORBITER B2C2D2M1W2V3K2 (ADF078) (16 FEB 73)

REFERENCE DATA

SREF =	5.2816 SQ.FT.	XMRP =	43.0396 INCHES		
LREF =	21.2628 INCHES	YMRP =	.0000 INCHES		
BREF =	40.8119 INCHES	ZMRP =	16.2000 INCHES		
SCALE =	.0403 SCALE				

PARAMETRIC DATA

ALPHA = 18.000

RUN NO. 78/ 0 RN/L = 1.84 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	CL	CDF	CLM	CN	CAF	CLN	CSL	CY	XCP/L	L/DF
.260	-5.060	.83660	.23590	-.07680	.86910	-.05210	-.00890	.00360	.08800	.68490	3.56400
.260	-3.040	.83250	.23420	-.07340	.86340	-.04950	-.00540	.00150	.05500	.68360	3.55300
.260	-1.010	.82840	.23470	-.07140	.85970	-.04770	-.00070	-.00100	.02200	.68260	3.52900
.260	.000	.82720	.23470	-.07000	.85850	-.04730	.00120	-.00210	.00600	.68220	3.52400
.260	.990	.82360	.23330	-.06960	.85470	-.04730	.00350	-.00400	-.00800	.68220	3.52800
.260	3.030	.82760	.23230	-.07100	.85830	-.04980	.00770	-.00540	-.04300	.68270	3.56200
.260	5.050	.82790	.23040	-.07190	.85790	-.05160	.01090	-.00840	-.07700	.68310	3.59300
.260	7.090	.82300	.22730	-.07120	.85220	-.05260	.01380	-.01300	-.11000	.68300	3.61900
.260	9.100	.81370	.22520	-.07020	.84270	-.05160	.01690	-.01860	-.14200	.68290	3.61200
.260	11.130	.81760	.22570	-.07260	.84670	-.05250	.01710	-.01960	-.17800	.68400	3.62200
	GRADIENT	-.00093	-.00035	.00044	-.00100	-.00003	.00215	-.00117	-.01603	-.00016	.00129

SSV-ATP ORBITER B2C2D2M1W2V3K2 (ADF079) (16 FEB 73)

REFERENCE DATA

SREF =	5.2816 SQ.FT.	XMRP =	43.0396 INCHES		
LREF =	21.2628 INCHES	YMRP =	.0000 INCHES		
BREF =	40.8119 INCHES	ZMRP =	16.2000 INCHES		
SCALE =	.0403 SCALE				

PARAMETRIC DATA

ALPHA = 20.000

RUN NO. 79/ 0 RN/L = 1.84 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	CL	CDF	CLM	CN	CAF	CLN	CSL	CY	XCP/L	L/DF
.260	-5.060	.87410	.26030	-.07230	.91640	-.05260	-.01010	.00720	.08100	.68130	3.11400
.260	-3.020	.87120	.26260	-.06810	.91460	-.04920	-.00580	.00270	.03100	.67990	3.08000
.260	-1.010	.87300	.26500	-.07010	.91710	-.04760	-.00020	-.00150	.02300	.68020	3.08300
.260	.000	.87330	.26570	-.06930	.91770	-.04720	.00170	-.00260	.00700	.67980	3.03600
.260	1.010	.87360	.26440	-.06810	.91790	-.04650	.00370	-.00340	-.00700	.67980	3.07100
.260	3.020	.87300	.26220	-.06690	.91610	-.05040	.00870	-.00790	-.03700	.67970	3.09300
.260	5.030	.87240	.26090	-.07340	.91510	-.05130	.01240	-.01260	-.06700	.68170	3.10500
.260	7.060	.86130	.26390	-.07840	.92450	-.05170	.01620	-.01470	-.10400	.68400	3.10300
.260	9.090	.87870	.26160	-.07660	.91930	-.05240	.01660	-.01920	-.13900	.68300	3.11200
.260	11.120	.87020	.27010	-.06170	.91200	-.05340	.02050	-.02240	-.17400	.68340	3.12600
	GRADIENT	.00030	-.00012	.00006	.00024	-.00021	.00235	-.00167	-.01460	-.00005	.00235

REPRODUCIBILITY OF THE ORIGINAL PAGE IS POOR

SSV-ATP ORBITER B2C202F1W2V3K2 (ADF080) (16 FEB 73)

REFERENCE DATA

SREF = 9.2616 SQ.FT. XMRP = 43.0596 INCHES
LREF = 21.2628 INCHES YMRP = .0000 INCHES
BREF = 40.8119 INCHES ZMRP = 16.2000 INCHES
SCALE = .0403 SCALE

PARAMETRIC DATA

BETA = .000 B2FLAP = .000

RUN NO. 80/ 0 RN/L = 1.84 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CL	CDF	CLM	CN	CAF	CLN	CSL	CY	XCP/L	L/DF
.260	-5.250	-.20550	.02400	.01510	-.20690	.00510	.00150	-.00100	-.00500	.67900	-8.55200
.260	-3.120	-.10420	.01780	.00600	-.10510	.01210	.00150	-.00090	-.00400	.67260	-5.85400
.260	-1.010	-.00860	.01510	-.00090	-.00880	.01490	.00130	-.00070	-.00300	.60750	-.56900
.260	.000	.03740	.01470	-.00360	.03740	.01470	.00110	-.00080	-.00200	.68870	2.54200
.260	1.070	.08510	.01570	-.00650	.08540	.01410	.00100	-.00080	-.00100	.68050	5.39500
.260	3.160	.17900	.01970	-.01290	.17980	.00980	.00100	-.00060	-.00100	.67850	9.05000
.260	5.260	.27450	.02740	-.02010	.27590	.00210	.00100	-.00080	.00000	.67880	9.98500
.260	6.270	.32060	.03160	-.02360	.32220	-.00350	.00110	-.00080	.00000	.67920	10.11500
.260	8.470	.42490	.04520	-.03330	.42690	-.01780	.00040	-.00030	.00100	.68090	9.38400
.260	10.600	.53000	.06380	-.04440	.53270	-.03470	-.00040	-.00040	.00300	.68300	8.29900
.260	12.740	.64200	.10130	-.06160	.64860	-.04270	.00240	.00150	-.00100	.68760	6.33500
.260	14.830	.72460	.14970	-.07310	.73880	-.04060	.00160	.00020	.00000	.68910	4.83700
.260	16.930	.79900	.20250	-.08540	.80830	-.03890	.00130	-.00060	.00200	.69100	3.94400
.260	17.950	.83310	.22870	-.09150	.84500	-.03980	.00120	-.00060	.00300	.69160	3.65100
.260	20.020	.88950	.28160	-.09370	.93220	-.03990	.00100	-.00220	.00700	.68970	3.15700
.260	22.120	.93530	.33640	-.10140	.99320	-.04050	.00180	-.00430	.01000	.69040	2.78000
.260	24.190	.98560	.39080	-.10490	1.04090	-.03910	.00340	-.00540	.01300	.68980	2.47000
.260	26.290	.97520	.43500	-.10130	1.06700	-.04030	.00310	-.00460	.01400	.68750	2.24100
.260	29.210	.94960	.48230	-.08770	1.06420	-.04240	.00220	-.01010	.03800	.68260	1.96800
	GRADIENT	.04309	.00030	-.00298	.04338	-.00037	-.00009	.00004	.00053	.00428	2.42190

REPRODUCIBILITY OF THE ORIGINAL PAGE

SSV-ATP ORBITER B2C2D2F1W2V3K2 (ADF081) (16 FEB 73)

REFERENCE DATA

SREF = 5.2616 SQ.FT. XMRP = 43.0596 INCHES
LREF = 21.2628 INCHES YMRP = .0000 INCHES
BREF = 40.8119 INCHES ZMRP = 16.2000 INCHES
SCALE = .0405 SCALE

PARAMETRIC DATA

ALPHA = .000 B2FLAP = .000

RUN NO. 81/ 0 RN/L = 1.84 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	CL	CDF	CLM	CN	CAF	CLN	CSL	CY	XCP/L	L/DF
.260	-5.040	.04120	.01270	-.00730	.04120	.01270	-.00690	.00110	.03600	.72050	5.23700
.260	-3.020	.03870	.01530	-.00560	.03870	.01530	-.00370	.00040	.03100	.70550	2.53000
.260	-.990	.03910	.01550	-.00440	.03910	.01540	-.00070	-.00050	.00600	.69460	2.52500
.260	.010	.03750	.01600	-.00360	.03750	.01600	.00050	-.00090	-.00400	.69060	2.35500
.260	1.010	.03770	.01540	-.00410	.03770	.01540	.00180	-.00120	-.01600	.69360	2.45000
.260	3.040	.03800	.01420	-.00540	.03800	.01420	.00430	-.00180	-.04900	.70660	2.67000
.260	5.050	.03910	.01230	-.00700	.03910	.01220	.00650	-.00240	-.08200	.72160	3.17800
.260	7.060	.04030	.01010	-.00850	.04030	.01010	.00810	-.00250	-.11400	.73350	3.98100
.260	9.060	.04250	.00760	-.00980	.04250	.00760	.00880	-.00200	-.14300	.74170	5.56600
.260	11.120	.04720	.00480	-.01180	.04720	.00480	.00910	-.00130	-.17200	.74960	9.68600
	GRADIENT	-.00017	-.00017	.00001	-.00017	-.00016	.00131	-.00036	-.01299	.00012	.01725

SSV-ATP ORBITER B2C2D2F1W2V3K2 (ADF082) (16 FEB 73)

REFERENCE DATA

SREF = 5.2616 SQ.FT. XMRP = 43.0596 INCHES
LREF = 21.2628 INCHES YMRP = .0000 INCHES
BREF = 40.8119 INCHES ZMRP = 16.2000 INCHES
SCALE = .0405 SCALE

PARAMETRIC DATA

ALPHA = 5.000 B2FLAP = .000

RUN NO. 82/ 0 RN/L = 1.84 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	CL	CDF	CLM	CN	CAF	CLN	CSL	CY	XCP/L	L/DF
.260	-5.040	.27910	.02480	-.02430	.28020	-.00100	-.00780	.00390	.06200	.68430	11.25400
.260	-3.020	.27710	.02730	-.02270	.27840	.00120	-.00450	.00200	.03600	.68150	10.26000
.260	-.990	.27850	.02730	-.02150	.27770	.00160	-.00100	.00000	.00800	.67970	10.09200
.260	.000	.27830	.02850	-.02060	.27780	.00250	.00050	-.00080	-.00500	.67940	9.78000
.260	1.000	.27950	.02800	-.02100	.27890	.00240	.00200	-.00170	-.01500	.68000	9.82600
.260	3.040	.27950	.02630	-.02170	.27880	.00060	.00470	-.00360	-.04600	.68110	10.45400
.260	5.040	.27750	.02450	-.02390	.27800	-.00120	.00790	-.00530	-.08300	.68400	11.31900
.260	7.030	.27800	.02220	-.02560	.27890	-.00340	.01010	-.00670	-.11700	.68670	12.47400
.260	9.100	.27860	.01950	-.02790	.28040	-.00630	.01130	-.00770	-.14900	.68940	14.26600
.260	11.130	.28170	.01680	-.02990	.28210	-.00920	.01190	-.00820	-.17900	.69200	16.70300
	GRADIENT	-.00028	-.00007	.00009	-.00028	-.00005	.00152	-.00092	-.01364	-.00004	.01620

SSV-ATP ORBITER B2C2D2F1W2V3K2 (ADF083) (16 FEB 73)

REFERENCE DATA

SREF = 5.2616 SQ.FT. XMRP = 43.0596 INCHES
LREF = 21.2828 INCHES YMRP = .0000 INCHES
BREF = 40.8119 INCHES ZMRP = 16.2000 INCHES
SCALE = .0405 SCALE

PARAMETRIC DATA

ALPHA = 10.000 B2FLAP = .000

RUN NO. 83/ 0 RN/L = 1.84 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	CL	CDF	CLM	CN	CAF	CLN	CSL	CY	XCP/L	L/DF
.260	-5.030	.53590	.06590	-.05110	.53890	-.03380	-.00820	.00560	.05900	.68750	8.12300
.260	-3.020	.52740	.06280	-.04550	.52990	-.03520	-.00610	.00410	.04400	.68400	8.38800
.260	-1.030	.52740	.06460	-.04450	.53020	-.03340	-.00220	.00090	.01700	.68320	8.15400
.260	.010	.52690	.06540	-.04470	.53190	-.03290	-.00050	-.00040	.00400	.68320	8.07800
.260	1.000	.53110	.06470	-.04500	.53390	-.03410	.00070	-.00190	-.01100	.68340	8.20500
.260	3.030	.53130	.06460	-.04670	.53410	-.03420	.00400	-.00480	-.04500	.68460	8.21900
.260	5.050	.53360	.06270	-.04880	.53600	-.03600	.00710	-.00750	-.08000	.68600	8.30300
.260	7.090	.53530	.06150	-.05120	.53750	-.03800	.00970	-.00950	-.11500	.68770	8.69300
.260	9.100	.53720	.06100	-.05420	.53930	-.03880	.01080	-.01120	-.14900	.68970	8.79500
.260	11.110	.54010	.06160	-.05730	.54230	-.03860	.01070	-.01250	-.18100	.69180	8.75300
	GRADIENT	.00078	.00027	-.00020	.00061	.00011	.00164	-.00140	-.01462	.00010	-.02254

SSV-ATP ORBITER B2C2D2F1W2V3K2 (DF084) (16 FEB 73)

REFERENCE DATA

SREF = 5.2616 SQ.FT. XMRP = 43.0596 INCHES
LREF = 21.2828 INCHES YMRP = .0000 INCHES
BREF = 40.8119 INCHES ZMRP = 16.2000 INCHES
SCALE = .0405 SCALE

PARAMETRIC DATA

ALPHA = 15.000 B2FLAP = .000

RUN NO. 84/ 0 RN/L = 1.84 GRADIENT INTERVA = -5.00/ 5.00

MACH	BETA	CL	CDF	CLM	CN	CAF	CLN	CSL	CY	XCP/L	L/DF
.260	-5.040	.75770	.17250	-.06150	.77600	-.04130	-.00960	.00610	.06400	.69150	4.39000
.260	-3.030	.75710	.17490	-.07950	.77610	-.03690	-.00560	.00310	.03800	.69050	4.32900
.260	-1.000	.75750	.17640	-.07850	.77660	-.03750	-.00130	.00060	.00900	.68980	4.29300
.260	.010	.75810	.17710	-.07860	.77760	-.03710	.00060	-.00100	-.00200	.68990	4.28000
.260	1.000	.75810	.17660	-.07870	.77750	-.03750	.00250	-.00200	-.01500	.69000	4.29000
.260	3.030	.75970	.17590	-.08030	.77890	-.03880	.00670	-.00480	-.04600	.69080	4.31600
.260	5.040	.75830	.17370	-.08040	.77690	-.04050	.01020	-.00840	-.08000	.69090	4.36300
.260	7.090	.75850	.17000	-.07780	.77410	-.04340	.01290	-.01240	-.11500	.68970	4.44400
.260	9.120	.75420	.17090	-.08000	.77220	-.04170	.01470	-.01550	-.15000	.69100	4.41100
.260	11.130	.76390	.16960	-.07980	.76390	-.04070	.01310	-.02140	-.17900	.69130	4.39700
	GRADIENT	.00042	.00017	-.00014	.00049	.00005	.00202	-.00130	-.01568	.00005	-.00180

SSV-ATP ORBITER B2C2D2F1W2V3K2 (ADF085) (16 FEB 73)

REFERENCE DATA

SREF = 5.2818 SQ.FT. XMRP = 43.0596 INCHES
LREF = 21.2828 INCHES YMRP = .0000 INCHES
BREF = 40.8119 INCHES ZMRP = 16.2000 INCHES
SCALE = .0409 SCALE

PARAMETRIC DATA

ALPHA = 18.000 B2FLAP = .000

RUN NO. 85/ 0 RN/L = 1.84 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	CL	CDF	CLM	CN	CAF	CLN	CSL	CY	XCP/L	L/DF
.260	-5.040	.87340	.25290	-.09820	.90820	-.04470	-.01010	.00460	.06700	.69270	3.45200
.260	-3.010	.88590	.25360	-.09560	.90130	-.04170	-.00600	.00200	.04200	.69200	3.41300
.260	-1.000	.88320	.25410	-.09370	.89890	-.04090	-.00160	.00000	.01300	.69120	3.39600
.260	.010	.88390	.25320	-.09420	.89990	-.04000	.00050	-.00200	.00100	.69140	3.38500
.260	1.000	.88660	.25500	-.09400	.90260	-.04150	.00270	-.00300	-.01300	.69120	3.39800
.260	3.040	.88030	.25240	-.09390	.89560	-.04140	.00700	-.00550	-.04200	.69140	3.40800
.260	5.060	.85300	.24990	-.09200	.86800	-.04070	.01050	-.01060	-.07300	.69090	3.41200
.260	7.060	.85340	.25040	-.09350	.86840	-.04070	.01390	-.01560	-.10600	.69160	3.40700
.260	9.110	.85150	.24900	-.09430	.86620	-.04150	.01670	-.01950	-.14300	.69210	3.41900
.260	11.120	.84600	.24660	-.09340	.86220	-.04260	.01920	-.02190	-.17700	.69190	3.43600
	GRADIENT	-.00066	-.00014	.00024	-.00067	.00002	.00215	-.00127	-.01360	-.00009	-.00064

SSV-ATP ORBITER B2C2D2F1W2V3K2 (ADF086) (16 FEB 73)

REFERENCE DATA

SREF = 5.2818 SQ.FT. XMRP = 43.0596 INCHES
LREF = 21.2828 INCHES YMRP = .0000 INCHES
BREF = 40.8119 INCHES ZMRP = 16.2000 INCHES
SCALE = .0409 SCALE

PARAMETRIC DATA

ALPHA = 20.000 B2FLAP = .000

RUN NO. 86/ 0 RN/L = 1.84 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	CL	CDF	CLM	CN	CAF	CLN	CSL	CY	XCP/L	L/DF
.260	-5.010	.92200	.30920	-.10370	.97150	-.04270	-.01120	.00940	.06300	.69220	2.98100
.260	-3.010	.91560	.30690	-.09800	.96550	-.04090	-.00710	[illegible]	.04300	.69020	2.98500
.260	-.990	.91060	.30600	-.09570	.96040	-.04000	-.00195	-.00190	.02000	.68945	2.99800
.260	.020	.90690	.30630	-.09920	.95860	-.03900	.00050	-.00330	.00600	.68930	2.94800
.260	1.090	.90570	.30600	-.09810	.95760	-.03850	.00300	-.00510	-.00700	.68980	2.94000
.260	3.030	.90660	.30670	-.09840	.95850	-.03900	.00750	-.00740	-.03600	.69070	2.93900
.260	5.040	.91410	.30820	-.09950	.96560	-.04130	.01030	-.00910	-.07000	.69080	2.93900
.260	7.040	.91260	.30720	-.10290	.96200	-.04140	.01300	-.01240	-.10400	.69230	2.97000
.260	9.090	.91320	.30520	-.10400	.96160	-.04350	.01600	-.01730	-.14000	.69270	2.99100
.260	11.120	.91090	.30320	-.10460	.95900	-.04460	.01760	-.02190	-.17300	.69310	3.00300
	GRADIENT	-.00198	-.00055	-.00006	-.00199	.00036	.00240	-.00168	-.01304	.00009	-.00196

SSV-ATP ORBITER B2C2D2M1F1W2E2V3K2 (ADF087) (16 FEB 73)

REFERENCE DATA

SREF = 3.2616 SQ.FT. XMRP = 43.0598 INCHES
LREF = 21.2828 INCHES YMRP = .0000 INCHES
BREF = 40.8119 INCHES ZMRP = 16.2000 INCHES
SCALE = .0403 SCALE

PARAMETRIC DATA

BETA = .000 B2FLAP = .000
ELEVON = -5.000 MACH = .260

RUN NO. 67/ 0 RN/L = 1.84 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CL	CDF	CLM	CN	CAF	CLN	CSL	CY	XCP/L	L/DF
.260	-5.340	-.36910	.03970	.08300	-.37120	.00520	.00110	-.00250	-.01100	.73640	-9.27300
.260	-3.260	-.26330	.02830	.07070	-.26450	.01330	.00120	-.00190	-.01000	.75580	-9.27400
.260	-1.150	-.16030	.02080	.06090	-.16030	.01750	.00100	-.00190	-.00900	.80020	-7.66300
.260	-.110	-.11240	.01860	.05680	-.11240	.01840	.00090	-.00170	-.00800	.85000	-6.02900
.260	.980	-.06150	.01740	.05340	-.06120	.01640	.00090	-.00160	-.00700	.99510	-3.59100
.260	3.070	.03520	.01630	.04700	.03600	.01440	.00080	-.00150	-.00600	.13340	2.15100
.260	5.190	.13030	.01910	.04130	.13150	.00720	.00070	-.00140	-.00400	.52350	6.80200
.260	6.240	.17670	.02240	.03810	.17810	.00300	.00050	-.00150	-.00200	.96320	7.88200
.260	9.360	.27250	.03050	.03030	.27410	-.00940	.00020	-.00170	.00000	.60610	8.92600
.260	10.460	.37300	.04440	.02160	.37490	-.02400	-.00010	-.00160	.00300	.62710	8.39500
.260	12.610	.48750	.05980	.00670	.49080	-.03920	.00060	-.00200	-.00100	.64450	7.06100
.260	14.690	.58680	.10650	-.00980	.59460	-.04580	.00090	-.00120	-.00400	.65650	5.50700
.260	16.800	.67840	.13570	-.02450	.69290	-.04650	.00040	-.00130	.00000	.66400	4.34400
.260	17.890	.71950	.15060	-.03010	.74020	-.04920	.00080	-.00080	-.00400	.66810	3.98400
.260	19.980	.79650	.23160	-.04050	.82820	-.05420	.00110	-.00300	.00000	.66930	3.43700
.260	22.080	.85300	.28540	-.04810	.89770	-.05580	.00190	-.00480	.00000	.67030	2.98600
.260	24.020	.89420	.33600	-.05000	.95440	-.05930	.00080	-.00360	.00600	.67070	2.64500
	GRADIENT	.04711	-.00187	-.00372	.04742	.00020	-.00006	.00007	.00066	-.07935	1.82195

SSV-ATP ORBITER B2C2D2M1F1W2E2V3K2 (ADF088) (16 FEB 73)

REFERENCE DATA

SREF = 3.2616 SQ.FT. XMRP = 43.0598 INCHES
LREF = 21.2828 INCHES YMRP = .0000 INCHES
BREF = 40.8119 INCHES ZMRP = 16.2000 INCHES
SCALE = .0403 SCALE

PARAMETRIC DATA

ALPHA = .000 B2FLAP = .000
ELEVON = -5.000

RUN NO. 68/ 0 RN/L = 1.84 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	CL	CDF	CLM	CN	CAF	CLN	CSL	CY	XCP/L	L/DF
.260	-5.040	-.10410	.01360	.05300	-.10410	.01940	-.00640	-.00160	.03400	.85150	-8.66700
.260	-3.020	-.10690	.01700	.05340	-.10690	.01680	-.00360	-.00170	.03000	.85930	-8.28100
.260	-1.000	-.11050	.01810	.05690	-.11050	.01600	-.00030	-.00190	.00300	.85330	-8.07900
.260	.000	-.10920	.01660	.05690	-.10920	.01650	.00090	-.00180	-.00800	.85820	-5.83600
.260	.970	-.11040	.01790	.05870	-.11090	.01790	.00220	-.00170	-.02000	.85250	-8.23000
.260	3.020	-.10980	.01690	.05530	-.10970	.01680	.00480	-.00180	-.03200	.84960	-8.46600
	GRADIENT	-.00042	-.00003	-.00003	-.00044	-.00002	.00136	-.00001	-.01339	-.00002	-.03606

SSV-ATP ORBITER B2C2W1F1W2V3K2 (ADF069) (16 FEB 73)

REFERENCE DATA

SREF = 3.2816 SQ.FT. XMRP = 43.0598 INCHES
LREF = 21.2826 INCHES YMRP = .0000 INCHES
BREF = 40.8119 INCHES ZMRP = 16.2000 INCHES
SCALE = .0405 SCALE

PARAMETRIC DATA

BETA = .000 B2FLAP = .000

RUN NO. 69/ 0 RN/L = 1.84 GRADIENT INTERVAL = -3.00/ 5.00

MACH	ALPHA	CL	CDF	CLM	CN	CAF	CLN	CSL	CY	XCP/L	L/DF
.260	-3.230	-.23730	.02570	.02090	-.23670	.00360	.00110	-.00070	-.01000	.68470	-9.23100
.260	-3.160	-.13660	.01900	.01200	-.13750	.01140	.00100	-.00060	-.00900	.68460	-7.19100
.260	-1.030	-.03790	.01630	.00440	-.03820	.01560	.00090	-.00050	-.00700	.69370	-2.32400
.260	.020	.00920	.01510	.00170	.00920	.01510	.00060	-.00030	-.00700	.87560	.60600
.260	1.070	.05620	.01560	-.00110	.05650	.01460	.00060	-.00030	-.00600	.65810	3.59200
.260	3.160	.15010	.01760	-.00720	.15090	.00950	.00070	-.00010	-.00600	.66890	8.41700
.260	5.270	.24350	.02500	-.01310	.24480	.00250	.00060	-.00010	-.00500	.67120	9.73600
.260	6.340	.29090	.03000	-.01650	.29240	-.00220	.00070	-.00010	-.00500	.67230	9.69000
.260	8.440	.38680	.04130	-.02480	.39060	-.01620	.00040	-.00010	-.00300	.67520	9.41100
.260	10.560	.49410	.05930	-.03550	.49660	-.03230	.00000	.00000	.00000	.67830	8.32500
.260	12.710	.60790	.09260	-.05290	.61350	-.04320	.00160	.00090	-.01400	.66410	6.54400
.260	14.810	.70080	.13630	-.06440	.71220	-.04730	.00110	.00040	-.00900	.66580	5.13700
.260	16.890	.77300	.18650	-.07360	.79390	-.04820	.00080	.00000	-.00600	.66670	4.14500
.260	17.930	.81720	.21290	-.07980	.84300	-.04940	.00090	-.00050	-.00500	.66740	3.83600
.260	20.090	.88020	.28440	-.08480	.91790	-.05340	.00120	-.00270	-.00100	.66650	3.32800
.260	22.130	.92920	.32010	-.08720	.96130	-.05350	.00220	-.00470	-.00200	.66510	2.90200
.260	24.200	.95670	.37270	-.08550	1.02340	-.05220	.00300	-.00320	-.01100	.66290	2.56600
.260	26.220	.94340	.40760	-.07520	1.02620	-.05200	.00230	-.00320	-.00500	.67890	2.31900
.260	29.250	.94320	. 4000	-.07300	1.04940	-.06040	.00190	-.00310	.00000	.67730	2.03400
	GRADIENT	.04531	-.00021	-.00300	.04558	-.00031	-.00005	.00006	.00048	-.00405	2.50413

SSV-ATP ORBITER B2C2M1F1W2V3K2 (ADF090) (16 FEB 73)

REFERENCE DATA

SREF = 5.2818 SQ.FT. XMRP = 43.0596 INCHES
LREF = 21.2828 INCHES YMRP = .0000 INCHES
BREF = 40.8119 INCHES ZMRP = 16.2000 INCHES
SCALE = .0405 SCALE

PARAMETRIC DATA

ALPHA = .000 B2FLAP = .000

RUN NO. 90/ 0 RN/L = 1.84 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	CL	CDF	CLM	CN	CAF	CLN	CSL	CY	XCP/L	L/DF
.260	-5.030	.01310	.01240	-.00190	.01310	.01240	-.00820	.00070	.06800	.71000	1.05400
.260	-3.020	.01160	.01450	-.00010	.01160	.01450	-.00460	.00010	.03800	.65560	.61400
.260	-1.000	.00990	.01550	.00090	.00990	.01550	-.00090	-.00030	.00700	.61160	.63600
.260	.010	.00930	.01520	.00130	.00930	.01520	.00070	-.00040	-.00600	.59170	.61400
.260	.990	.00860	.01510	.00130	.00860	.01510	.00230	-.00050	-.01900	.59090	.57400
.260	3.010	.00910	.01370	.00030	.00910	.01370	.00590	-.00110	-.04900	.63480	.66500
.260	5.020	.00820	.01130	-.00090	.00820	.01130	.00960	-.00180	-.08300	.69650	.72300
.260	7.040	.01140	.00950	-.00280	.01140	.00950	.01280	-.00180	-.11500	.74770	1.19800
.260	9.050	.01320	.00640	-.00400	.01320	.00640	.01460	-.00100	-.14300	.76980	2.04700
.260	11.070	.01750	.00420	-.00610	.01750	.00420	.01610	.00000	-.17100	.78940	4.14000
	GRADIENT	-.00047	-.00014	.00006	-.00047	-.00014	.00173	-.00019	-.01429	-.00419	-.02536

SSV-ATP ORBITER B2C2M1F1W2V3K2 (ADF091) (16 FEB 73)

REFERENCE DATA

SREF = 5.2818 SQ.FT. XMRP = 43.0596 INCHES
LREF = 21.2828 INCHES YMRP = .0000 INCHES
BREF = 40.8119 INCHES ZMRP = 16.2000 INCHES
SCALE = .0405 SCALE

PARAMETRIC DATA

ALPHA = 5.000 B2FLAP = .000

RUN NO. 91/ 0 RN/L = 1.84 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	CL	CDF	CLM	CN	CAF	CLN	CSL	CY	XCP/L	L/DF
.260	-5.040	.24820	.02230	-.01750	.24920	-.00040	-.00870	.00370	.07000	.67760	11.08300
.260	-3.010	.24610	.02460	-.01560	.24730	.00190	-.00480	.00210	.03900	.67500	9.99400
.260	-1.010	.24390	.02630	-.01410	.24530	.00380	-.00080	.00030	.00700	.67260	9.27100
.260	.010	.24360	.02640	-.01370	.24500	.00400	.00080	-.00010	-.00600	.67220	9.20400
.260	.990	.24300	.02540	-.01390	.24430	.00310	.00230	-.00090	-.01900	.67250	9.33300
.260	3.020	.24320	.02350	-.01490	.24430	.00110	.00840	-.00250	-.05100	.67350	10.33500
.260	5.010	.24290	.02200	-.01560	.24350	-.00020	.01020	-.00420	-.08100	.67570	11.00600
.260	7.020	.24260	.01930	-.01670	.24330	-.00290	.01400	-.00570	-.11300	.67920	12.53200
.260	9.040	.24470	.01730	-.01660	.24550	-.00500	.01660	-.00660	-.14500	.68010	14.06600
.260	11.060	.24660	.01460	-.02140	.24690	-.00810	.01920	-.00720	-.17500	.68410	17.02200
	GRADIENT	-.00048	-.00021	.00017	-.00050	-.00019	.00184	-.00076	-.01473	-.00024	.06421

SSV-ATP ORBITER B2C2M1F1W2V3K2 (ADF092) (16 FEB 73)

REFERENCE DATA

SREF = 3.2816 SQ.FT. XMRP = 43.0396 INCHES
LREF = 21.2828 INCHES YMRP = .0000 INCHES
BREF = 40.8119 INCHES ZMRP = 16.2000 INCHES
SCALE = .0405 SCALE

PARAMETRIC DATA

ALPHA = 10.000 B2FLAP = .000

RUN NO. 92/ 0 RN/L = 1.84 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	CL	CDF	CLM	CN	CAF	CLN	CSL	CY	XCP/L	L/DF
.260	-4.990	.49960	.05680	-.04160	.50210	-.03390	-.00840	.00490	.06200	.68280	8.49500
.260	-3.020	.49310	.05810	-.03650	.49540	-.03330	-.00570	.00340	.04200	.67910	8.47600
.260	-1.000	.46370	.05930	-.03550	.49620	-.03190	-.00160	.00110	.01200	.67830	8.32500
.260	.000	.49450	.05920	-.03570	.49700	-.03250	.00020	.00000	-.00100	.67840	8.34000
.260	.000	.49290	.05950	-.03500	.49540	-.03220	.00020	-.00010	-.00100	.67800	8.28200
.260	.000	.49430	.06010	-.03570	.49700	-.03190	.00020	-.00010	-.00100	.67840	8.22600
.260	.990	.49630	.05950	-.03560	.49880	-.03300	.00210	-.00140	-.01500	.67840	8.36900
.260	3.030	.49940	.05880	-.03640	.50170	-.03410	.00650	-.00410	-.04600	.68030	8.51600
.260	5.010	.50060	.05660	-.03960	.50270	-.03630	.01040	-.00640	-.07600	.68120	8.84700
.260	7.050	.50240	.05620	-.04190	.50410	-.03720	.01410	-.00870	-.10900	.68280	8.93600
.260	9.050	.50100	.05480	-.04300	.50250	-.03810	.01680	-.01060	-.13900	.68390	9.13000
.260	11.070	.50470	.05620	-.04390	.50640	-.03720	.01790	-.01240	-.16700	.68360	8.96800
.260	.000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000
	GRADIENT	.00000	.00007	.00043	.00002	.00004	.00166	-.00112	-.01395	-.00034	-.00968

SSV-ATP ORBITER B2C2M1F1W2V3K2 (ADF093) (16 FEB 73)

REFERENCE DATA

SREF = 3.2816 SQ.FT. XMRP = 43.0396 INCHES
LREF = 21.2828 INCHES YMRP = .0000 INCHES
BREF = 40.8119 INCHES ZMRP = 16.2000 INCHES
SCALE = .0405 SCALE

PARAMETRIC DATA

ALPHA = 15.000 B2FLAP = .000

RUN NO. 93/ 0 RN/L = 1.84 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	CL	CDF	CLM	CN	CAF	CLN	CSL	CY	XCP/L	L/DF
.260	-5.040	.73350	.15730	-.07080	.74870	-.04900	-.00880	.00660	.05600	.68740	4.65600
.260	-3.000	.73290	.16030	-.06900	.74880	-.04600	-.00470	.00350	.03000	.68640	4.56900
.260	-1.000	.73310	.16100	-.06770	.74920	-.04550	.00000	.00060	.00000	.68570	4.59200
.260	.010	.73440	.16180	-.06790	.75070	-.04510	.00160	-.00080	-.01200	.68580	4.59700
.260	1.000	.73320	.16240	-.06640	.75160	-.04910	.00360	-.00210	-.02900	.68600	4.52600
.260	3.020	.73600	.16000	-.06900	.75370	-.04770	.00870	-.00430	-.06000	.68620	4.61100
.260	5.040	.74270	.15690	-.07060	.75790	-.05000	.01330	-.00740	-.08900	.68680	4.67200
.260	7.030	.73910	.15830	-.06950	.75430	-.04980	.01750	-.01230	-.11200	.68640	4.66700
.260	9.080	.74020	.16060	-.07100	.75590	-.04750	.02100	-.01600	-.13700	.68710	4.60100
.260	11.050	.74230	.16100	-.07090	.75800	-.04810	.02230	-.01660	-.16300	.68700	4.60900
	GRADIENT	.00067	.00002	-.00004	.00085	-.00024	.00219	-.00130	-.01471	-.00001	.00301

SSV-ATP ORBITER B2C2M1F1W2V3K2 (ADF094) (16 FEB 73)

REFERENCE DATA

SREF = 3.2816 SQ.FT. XMRP = 43.0596 INCHES
LREF = 21.2626 INCHES YMRP = .0000 INCHES
MREF = 40.8119 INCHES ZMRP = 16.2000 INCHES
SCALE = .0405 SCALE

PARAMETRIC DATA

ALPHA = 18.000 B2FLAP = .000

RUN NO. 94/ 0 RN/L = 1.84 GRADIENT INTERVAL = -3.00/ 3.00

MACH	BETA	CL	CDF	CLM	CN	CAF	CLN	CSL	CY	XCP/L	L/DF
.260	-3.020	.85140	.23750	-.08710	.88240	-.05270	-.00830	.00610	.05000	.68910	3.58400
.260	-3.010	.84810	.23760	-.08430	.87930	-.05140	-.00410	.00370	.02300	.68790	3.56800
.260	-.990	.84830	.23950	-.08220	.88000	-.04980	.00070	.00050	-.00700	.68090	3.54100
.260	.020	.84820	.23860	-.08100	.87980	-.05030	.00270	-.00100	-.01600	.68640	3.55100
.260	1.010	.84860	.23990	-.08160	.88040	-.05090	.00480	-.00240	-.03100	.68660	3.53700
.260	3.040	.85200	.23930	-.08410	.88350	-.05130	.00990	-.00560	-.06200	.68770	3.56000
.260	5.010	.84450	.23700	-.08120	.87560	-.05070	.01430	-.01190	-.07900	.68660	3.56200
.260	7.040	.84150	.23530	-.07960	.87220	-.05120	.01880	-.01590	-.10300	.68620	3.57500
.260	9.040	.84570	.23610	-.08160	.87650	-.05210	.02340	-.01790	-.13500	.68680	3.58100
.260	11.060	.85000	.23610	-.08440	.88060	-.05350	.02580	-.02000	-.16600	.68790	3.60000
	GRADIENT	.00060	.00027	.00006	.00065	-.00004	.00229	-.00155	-.01385	-.00004	-.00138

SSV-ATP ORBITER B2C2M1F1W2V3K2 (ADF095) (16 FEB 73)

REFERENCE DATA

SREF = 3.2816 SQ.FT. XMRP = 43.0596 INCHES
LREF = 21.2626 INCHES YMRP = .0000 INCHES
MREF = 40.8119 INCHES ZMRP = 16.2000 INCHES
SCALE = .0405 SCALE

PARAMETRIC DATA

ALPHA = 20.000 B2FLAP = .000

RUN NO. 95/ 0 RN/L = 1.84 GRADIENT INTERVAL = -3.00/ 3.00

MACH	BETA	CL	CDF	CLM	CN	CAF	CLN	CSL	CY	XCP/L	L/DF
.260	-3.030	.90440	.29100	-.08800	.94850	-.05420	-.00850	.00710	.04600	.68870	3.10700
.260	-3.010	.90090	.29250	-.08420	.94560	-.05140	-.00340	.00260	.01900	.68520	3.07900
.260	-.990	.90060	.29410	-.08500	.94610	-.04970	.00180	-.00050	-.01000	.68550	3.08100
.260	.010	.89830	.29420	-.08330	.94210	-.04800	.00370	-.00270	-.02000	.68490	3.04900
.260	1.010	.89820	.29440	-.08380	.94400	-.04840	.00370	-.00380	-.03200	.68510	3.05000
.260	3.020	.89870	.29340	-.08530	.94410	-.04930	.01070	-.00700	-.06200	.68570	3.06200
.260	5.020	.90160	.29230	-.08640	.94640	-.05180	.01460	-.01060	-.08000	.68700	3.08400
.260	7.040	.90260	.29140	-.09090	.94720	-.05290	.01910	-.01420	-.10500	.68790	3.09700
.260	9.010	.91570	.29340	-.09580	.95990	-.05590	.02270	-.01490	-.13900	.68860	3.12000
.260	11.090	.91610	.29180	-.09300	.96180	-.05840	.02290	-.01620	-.17100	.68820	3.14500
	GRADIENT	-.00049	.00019	-.00010	-.00038	.00035	.00231	-.00165	-.01318	.00005	-.00309

SSV-ATP ORBITER B2H1F1W2V3K2 (ADF096) (16 FEB 73)

REFERENCE DATA

SREF = 5.2818 SQ.FT. XMRP = 43.0596 INCHES
LREF = 21.2626 INCHES YMRP = .0000 INCHES
BREF = 40.8119 INCHES ZMRP = 16.2000 INCHES
SCALE = .0405 SCALE

PARAMETRIC DATA

BETA = .000 B2FLAP = .000°

RUN NO. 96/ 0 RN/L = 1.84 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CL	CDF	CLM	CN	CAF	CLN	CSL	CY	XCP/L	L/DF
.260	-5.250	-.23640	.02640	.01830	-.23780	.00460	.00120	-.00060	-.01100	.68050	-8.93600
.260	-3.130	-.13830	.01990	.00930	-.13720	.01240	.00100	-.00060	-.00900	.67700	-6.84600
.260	-1.020	-.04020	.01620	.00280	-.04050	.01550	.00060	-.00050	-.00600	.67760	-2.47100
.260	.000	.00480	.01700	.00010	.00480	.01700	.00070	-.00040	-.00600	.63510	.28400
.260	1.070	.09320	.01640	-.00250	.09350	.01540	.00060	-.00030	-.00500	.66910	5.24000
.260	3.200	.14900	.01950	-.00800	.14980	.01110	.00060	.00000	-.00400	.67110	7.63500
.260	5.290	.24260	.02550	-.01500	.24410	.00300	.00050	-.00010	-.00400	.67430	9.50200
.260	6.340	.26980	.03000	-.01620	.29140	-.00220	.00050	.00000	-.00400	.67470	9.65400
.260	8.450	.36700	.04200	-.02650	.38900	-.01520	.00020	.00010	-.00100	.67700	9.19500
.260	10.560	.49210	.05970	-.03730	.49470	-.03160	-.00050	.00060	.00300	.67990	8.23400
.260	12.710	.60110	.09260	-.05350	.60660	-.04200	.00100	.00060	-.00900	.68490	6.49100
.260	14.800	.69450	.13740	-.06620	.70660	-.04460	.00050	.00030	-.00500	.68700	5.05200
.260	16.920	.76800	.18660	-.07470	.78910	-.04490	.00010	.00020	-.00100	.68740	4.11400
.260	17.980	.80840	.21290	-.08070	.83470	-.04680	.00010	-.00020	.00000	.68620	3.79700
.260	20.040	.87740	.26610	-.08600	.91550	-.05070	.00000	.00050	.00000	.68800	3.29700
.260	22.130	.92050	.31690	-.08600	.97290	-.05130	.00070	-.00340	.00500	.68580	2.88500
.260	24.190	.95210	.37070	-.08810	1.02040	-.05200	.00210	-.00310	-.00500	.68410	2.56700
.260	26.220	.93950	.40510	-.07730	1.02180	-.05170	.00100	-.00280	.00300	.67990	2.31600
.260	29.200	.94270	.46010	-.07600	1.04740	-.05820	.00140	-.01050	.03200	.67870	2.04600
	GRADIENT	.04503	-.00004	-.00271	.04550	-.00020	-.00007	.00009	.00076	-.00120	2.33144

SSV-ATP ORBITER B2M1F1W2V3A2 (ADF097) (16 FEB 73)

REFERENCE DATA

SREF = 3.2816 SQ.FT. XMRP = 43.0596 INCHES
LREF = 21.2628 INCHES YMRP = .0000 INCHES
BREF = 40.8119 INCHES ZMRP = 16.2000 INCHES
SCALE = .0405 SCALE

PARAMETRIC DATA

ALPHA = .000 B2FLAP = .000

RUN NO. 97/ 0 RN/L = 1.64 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	CL	CDF	CLM	CN	CAF	CLN	CSL	CY	XCP/L	L/DF
.260	-5.030	.01060	.01390	-.00370	.01060	.01390	-.00840	.00080	.07000	.79050	.76100
.260	-3.040	.00910	.01600	-.00160	.00910	.01600	-.00450	.00020	.03600	.72250	.56900
.260	-1.000	.00740	.01680	-.00050	.00740	.01680	-.00060	-.00020	.00600	.67990	.44100
.260	.000	.00690	.01660	-.00020	.00690	.01660	.00080	-.00020	-.00700	.66800	.41500
.260	1.000	.00810	.01700	-.00060	.00810	.01700	.00250	-.00020	-.02100	.69290	.48000
.260	3.030	.00560	.01420	-.00100	.00560	.01420	.00620	-.00050	-.05100	.72590	.39500
.260	5.010	.00680	.01300	-.00300	.00680	.01300	.00990	-.00110	-.08200	.82780	.52200
.260	7.040	.00990	.01050	-.00480	.00990	.01050	.01330	-.00110	-.11500	.84200	.94600
.260	9.030	.01090	.00890	-.00600	.01090	.00850	.01520	-.00030	-.14300	.86990	1.28400
.260	11.070	.01650	.00540	-.00840	.01650	.00540	.01690	.00090	-.17200	.85190	3.04600
	GRADIENT	-.00049	-.00026	.00007	-.00049	-.00026	.00175	-.00010	-.01455	.00113	-.02396

SSV-ATP ORBITER B2M1F1W2V3K2 (ADF098) (16 FEB 73)

REFERENCE DATA

SREF = 3.2816 SQ.FT. XMRP = 43.0596 INCHES
LREF = 21.2628 INCHES YMRP = .0000 INCHES
BREF = 40.8119 INCHES ZMRP = 16.2000 INCHES
SCALE = .0405 SCALE

PARAMETRIC DATA

ALPHA = 5.000 B2FLAP = .000

RUN NO. 98/ 0 RN/L = 1.64 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	CL	CDF	CLM	CN	CAF	CLN	CSL	CY	XCP/L	L/DF
.260	-5.040	.24600	.02360	-.02000	.24910	.00070	-.00890	.00370	.07100	.66140	10.47900
.260	-3.010	.24410	.02520	-.01740	.24540	.00260	-.00510	.00210	.04100	.67810	9.66800
.260	-1.000	.24160	.02570	-.01530	.24310	.00340	-.00100	.00050	.00800	.67490	9.40100
.260	.000	.24180	.02700	-.01500	.24520	.00470	.00050	.00000	-.00400	.67450	8.93400
.260	.990	.24140	.02260	-.01530	.24250	.00030	.00230	-.00050	-.01900	.67510	10.57500
.260	3.010	.24070	.02460	-.01660	.24200	.00260	.00620	-.00220	-.04900	.67720	9.70600
.260	5.030	.24160	.02240	-.01790	.24270	.00000	.00990	-.00370	-.08000	.67920	10.77600
.260	7.040	.24930	.02030	-.02010	.24420	-.00210	.01390	-.00500	-.11400	.68250	11.96900
.260	9.080	.24460	.01790	-.02210	.24920	-.00450	.01670	-.00540	-.14900	.68570	13.61300
.260	11.040	.24900	.01570	-.02460	.24940	-.00720	.01930	-.00620	-.17600	.68930	15.61700
	GRADIENT	-.00053	-.00020	.00012	-.00054	-.00014	.00186	-.00069	-.01481	-.00012	.06085

SSV-ATP ORBITER B2M1F1W2V3K2 (ADF099) (16 FEB 73)

REFERENCE DATA

SREF = 5.2616 SQ.FT. XMRP = 43.0396 INCHES
LREF = 21.2628 INCHES YMRP = .0000 INCHES
BREF = 40.8119 INCHES ZMRP = 16.2000 INCHES
SCALE = .0409 SCALE

PARAMETRIC DATA

ALPHA = 10.000 B2FLAP = .000

RUN NO. 99/ 0 RN/L = 1.84 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	CL	CDF	CLM	CN	CAF	CLN	CSL	CY	XCP/L	L/DF
.260	-5.100	.50030	.06120	-.04460	.50310	-.03170	-.00880	.00570	.06400	.68500	8.18700
.260	-5.020	.49420	.05950	-.04010	.49670	-.03220	-.00630	.00460	.04500	.68190	8.29500
.260	-1.090	.49330	.06040	-.03860	.49600	-.03110	-.00210	.00220	.01400	.68080	8.19800
.260	.000	.49400	.06090	-.03900	.49680	-.03080	-.00020	.00110	.00000	.68110	8.10100
.260	1.000	.49430	.06070	-.03940	.49700	-.03100	.00150	.00000	-.01200	.68140	8.13000
.260	5.020	.49640	.06010	-.04150	.49900	-.03200	.00580	-.00260	-.04600	.68290	8.25500
.260	9.020	.49720	.05780	-.04350	.49940	-.03440	.00930	-.00510	-.07900	.68440	8.60200
.260	7.040	.49960	.05760	-.04530	.50190	-.03510	.01320	-.00740	-.11100	.68570	8.67100
.260	9.040	.49930	.05710	-.04700	.50130	-.03550	.01610	-.00940	-.14100	.68700	8.74300
.260	11.070	.50230	.05840	-.05010	.50450	-.03480	.01660	-.01060	-.16800	.68930	8.59800
	GRADIENT	.00038	.00010	-.00025	.00039	.00003	.00197	-.00118	-.01479	.00018	-.00715

SSV-ATP ORBITER B2M1F1W2V3K2 (ADF100) (16 FEB 73)

REFERENCE DATA

SREF = 5.2616 SQ.FT. XMRP = 43.0396 INCHES
LREF = 21.2628 INCHES YMRP = .0000 INCHES
BREF = 40.8119 INCHES ZMRP = 16.2000 INCHES
SCALE = .0409 SCALE

PARAMETRIC DATA

ALPHA = 15.000 B2FLAP = .000

RUN NO. 100/ 0 RN/L = 1.84 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	CL	CDF	CLM	CN	CAF	CLN	CSL	CY	XCP/L	L/DF
.260	-5.040	.73140	.15860	-.07140	.74690	-.04720	-.01100	.00750	.07200	.68780	4.61000
.260	-5.010	.73160	.16130	-.07090	.74800	-.04470	-.00630	.00440	.04200	.68750	4.53600
.260	-.990	.73040	.16270	-.06990	.74710	-.04290	-.00160	.00130	.01200	.68700	4.48600
.260	.030	.72960	.16250	-.06980	.74630	-.04260	.00000	.00010	.00000	.68700	4.48900
.260	1.010	.73030	.16500	-.06980	.74700	-.04270	.00200	-.00090	-.01300	.68660	4.47900
.260	5.020	.73330	.16070	-.07100	.75120	-.04630	.00690	-.00320	-.04600	.68730	4.57400
.260	9.030	.73390	.15830	-.07070	.74920	-.04810	.01190	-.00760	-.07700	.68730	4.63300
.260	7.060	.72940	.15740	-.06940	.74460	-.04780	.01530	-.01210	-.10700	.68690	4.63200
.260	9.090	.73290	.16030	-.07320	.74860	-.04600	.01890	-.01930	-.13900	.68670	4.57000
.260	11.070	.73290	.16060	-.07450	.74900	-.04940	.02060	-.01780	-.16700	.68930	4.53500
	GRADIENT	.00052	-.00007	.00000	.00047	-.00023	.00219	-.00124	-.01468	-.00004	.00929

SSV-ATP ORBITER B2H1F1W2V3K2 (ADF101) (16 FEB 73)

REFERENCE DATA

SREF = 9.2816 SQ.FT. XMRP = 43.0596 INCHES
LREF = 21.2828 INCHES YMRP = .0000 INCHES
BREF = 40.8119 INCHES ZMRP = 16.2000 INCHES
SCALE = .0405 SCALE

PARAMETRIC DATA

ALPHA = 16.000 B2FLAP = .000

RUN NO. 101/ 0 RN/L = 1.84 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	CL	CDF	CLM	CN	CAF	CLN	CSL	CY	XCP/L	L/DF
.260	-5.020	.84480	.23590	-.08500	.87560	-.05230	-.01170	-.00690	.07400	.68840	3.58000
.260	-3.030	.83950	.23660	-.08200	.87070	-.05000	-.00710	.00450	.04400	.68720	3.54800
.260	-.990	.83770	.23680	-.07990	.86920	-.04810	-.00210	.00160	.01300	.68630	3.53700
.260	.000	.83940	.23870	-.08080	.87140	-.04780	-.00010	.00020	.00100	.68670	3.51500
.260	1.000	.84340	.23950	-.08280	.87540	-.04840	.00180	.00000	-.01400	.68740	3.52000
.260	3.020	.84780	.23910	-.08610	.87950	-.05030	.00690	-.00190	-.04900	.68870	3.54500
.260	5.020	.84090	.23810	-.08170	.87200	-.05080	.01230	-.00970	-.07300	.68710	3.56100
.260	7.030	.84150	.23730	-.08410	.87290	-.04990	.01690	-.01290	-.10500	.68610	3.54500
.260	9.060	.84070	.23460	-.08200	.87140	-.05160	.02110	-.01710	-.13700	.68720	3.58000
.260	11.060	.84460	.23610	-.08620	.87540	-.05210	.02430	-.01990	-.16900	.68690	3.57600
	GRADIENT	.00152	.00051	-.00079	.00162	-.00001	.00228	-.00103	-.01319	.00028	-.00129

SSV-ATP ORBITER B2H1F1W2V3K2 (ADF102) (16 FEB 73)

REFERENCE DATA

SREF = 9.2816 SQ.FT. XMRP = 43.0596 INCHES
LREF = 21.2828 INCHES YMRP = .0000 INCHES
BREF = 40.8119 INCHES ZMRP = 16.2000 INCHES
SCALE = .0405 SCALE

PARAMETRIC DATA

ALPHA = 20.000 B2FLAP = .000

RUN NO. 102/ 0 RN/L = 1.84 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	CL	CDF	CLM	CN	CAF	CLN	CSL	CY	XCP/L	L/DF
.260	-5.030	.89880	.28880	-.08890	.94250	-.05400	-.01180	.00700	.07100	.68710	3.11100
.260	-3.010	.89390	.28930	-.08540	.93810	-.05200	-.00690	.00250	.04700	.68600	3.08900
.260	-1.010	.89270	.29110	-.08420	.93770	-.04970	-.00180	-.00120	.01800	.68550	3.08600
.260	.010	.89230	.29320	-.08340	.93810	-.04800	.00020	-.00300	.00700	.68520	3.04200
.260	.990	.88930	.29170	-.08270	.93470	-.04780	.00250	-.00530	-.00300	.68500	3.04700
.260	3.000	.89160	.29110	-.08470	.93670	-.04930	.00740	-.00800	-.03500	.68560	3.06200
.260	5.030	.90340	.29300	-.09120	.94830	-.05210	.01270	-.00930	-.07000	.68600	3.06200
.260	7.040	.90330	.29340	-.09310	.95040	-.05230	.01690	-.01210	-.10200	.68670	3.08500
.260	9.040	.90700	.29260	-.09260	.95150	-.05410	.02210	-.01560	-.13700	.68650	3.09900
.260	11.070	.90900	.29060	-.09330	.95270	-.05610	.02480	-.01880	-.16700	.68670	3.12700
	GRADIENT	-.00091	.00030	.00018	-.00036	.00030	.00236	-.00178	-.01333	-.00005	-.00500

SSV-ATP ORBITER 02C2D2M1F1W35V3K2 (ADF103) (16 FEB 75)

REFERENCE DATA

BREF = 9.2816 SQ.FT. XMRP = 43.0398 INCHES
LREF = 21.2828 INCHES YMRP = .0000 INCHES
BREF = 40.8119 INCHES ZMRP = 16.2000 INCHES
SCALE = .0403 SCALE

PARAMETRIC DATA

BETA = .000 B2FLAP = .000
LE.MOD = 18.000

RUN NO. 103/ 0 RN/L = 1.84 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CL	CDF	CLM	CN	CAF	CLN	CSL	CY	XCP/L	L/DF
.260	-5.290	-.24260	.03190	.01920	-.24450	.00940	.00170	.00030	-.00600	.68120	-7.59900
.260	-3.160	-.13700	.02140	.00940	-.13790	.01360	.00200	.00020	-.00600	.67700	-6.38600
.230	-1.050	-.03600	.01720	.00180	-.03630	.01650	.00170	-.00010	-.00400	.67050	-2.09000
.260	.000	.01170	.01680	-.00080	.01170	.01680	.00140	-.00030	-.00400	.67820	.69900
.260	1.040	.03780	.01660	-.00350	.03790	.01560	.00130	-.00040	-.00200	.67420	3.45800
.260	3.150	.15140	.01970	-.00940	.15230	.01130	.00120	-.00050	-.00200	.67450	7.67900
.260	5.270	.24860	.02610	-.01550	.25000	.00310	.00120	-.00060	-.00100	.67460	9.52500
.260	6.320	.29700	.03080	-.01920	.29850	-.00220	.00130	-.00080	-.00100	.67540	9.68400
.260	8.420	.39460	.04190	-.02650	.39650	-.01630	.00130	-.00120	.00000	.67650	9.40300
.260	10.510	.49460	.05710	-.03570	.49670	-.03400	.00140	-.00140	.00000	.67840	8.65100
.260	12.700	.59910	.07980	-.04560	.60200	-.05380	.00120	-.00160	.00100	.68000	7.50800
.260	14.780	.70540	.11150	-.06020	.71050	-.07200	.00100	-.00110	.00300	.68350	6.32300
.260	16.920	.80750	.15850	-.07260	.81810	-.08920	.00060	-.00530	.00800	.68510	5.13600
.260	17.950	.84150	.17960	-.07370	.85600	-.08830	.00070	-.00980	.01300	.68400	4.67700
.260	20.040	.90350	.24870	-.08330	.93330	-.07780	.00290	-.00300	.00300	.68530	3.66100
.260	22.130	.95040	.30440	-.08650	.99550	-.07620	.00120	-.00540	.01000	.68430	3.12200
.260	24.200	.98860	.36910	-.09070	1.05320	-.06870	.00360	-.00830	.01300	.68400	2.67800
.260	26.210	.98430	.41360	-.08090	1.06590	-.06950	.00260	-.00480	.00900	.68000	2.37800
	GRADIENT	.04361	-.00027	-.00294	.04590	-.00040	-.00013	-.00011	.00067	-.00018	2.27108

REPRODUCIBILITY OF THE ORIGINAL PAGE IS POOR.

SSV-ATP ORBITER B2C2D2M1F1W5V3K2 (ADF104) (16 FEB 73)

REFERENCE DATA

SREF = 5.2816 SQ.FT. XMRP = 43.0598 INCHES
LREF = 21.2828 INCHES YMRP = .0000 INCHES
BREF = 40.8119 INCHES ZMRP = 16.2000 INCHES
SCALE = .0403 SCALE

PARAMETRIC DATA

BETA = 5.000 B2FLAP = .000
LE.MOD = 18.000

RUN NO. 104/ 0 RN/L = 1.84 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CL	CDF	CLM	CN	CAF	CLN	CSL	CY	XCP/L	L/DF
.260	-5.270	-.23900	.02780	.01670	-.24050	.00570	.00850	.00240	-.08700	.67750	-8.58700
.260	-3.140	-.13470	.01710	.00660	-.13550	.00960	.00850	.00170	-.08700	.66940	-7.88100
.260	-1.020	-.03710	.01290	-.00050	-.03730	.01220	.00780	-.00010	-.08500	.64440	-2.87100
.260	.010	.00970	.01310	-.00350	.00970	.01310	.00770	-.00100	-.08500	.79260	.74200
.260	1.070	.03740	.01250	-.00630	.03760	.01140	.00800	-.00170	-.08500	.69570	4.98500
.260	3.180	.15220	.01510	-.01190	.15280	.00870	.00850	-.00310	-.08500	.68100	10.01900
.260	5.290	.24720	.02190	-.01840	.24810	-.00090	.00860	-.00430	-.08500	.67940	11.26700
.260	6.360	.29700	.02640	-.02190	.29810	-.00660	.00870	-.00490	-.08500	.67910	11.24700
.260	8.490	.39600	.03690	-.02920	.39710	-.02200	.00910	-.00610	-.08500	.67910	10.73200
.260	10.560	.49680	.05300	-.03690	.49830	-.03820	.00960	-.00760	-.08400	.68090	9.23400
.260	12.680	.60410	.07840	-.05210	.60660	-.05610	.00910	-.00820	-.08100	.68450	7.69800
.260	14.820	.71480	.11230	-.06600	.71970	-.07420	.00850	-.00920	-.07800	.68620	6.36000
.260	16.970	.80310	.15410	-.07360	.81320	-.08610	.00810	-.01450	-.07000	.68580	5.20900
.260	17.990	.84470	.19290	-.07850	.85990	-.08690	.00900	-.01650	-.06800	.68610	4.61700
.260	20.090	.90150	.24460	-.08060	.93070	-.07980	.01160	-.02170	-.06000	.68420	3.68500
.260	22.140	.94230	.30770	-.08950	.98680	-.07010	.01380	-.02130	-.05500	.68580	3.06200
.260	24.220	.99260	.37300	-.09870	1.03830	-.06710	.01460	-.01370	-.06200	.68690	2.66000
.260	26.240	1.00160	.41960	-.09420	1.08410	-.06660	.01170	-.00240	-.07700	.68430	2.38700
	GRADIENT	.04538	-.00030	-.00291	.04560	-.00043	.00001	-.00076	.00029	.00392	2.90478

REPRODUCIBILITY OF THE ORIGINAL PAGE IS POOR.

SSV-ATP ORBITER B[illegible] (ADF113) (16 FEB 73)

REFERENCE DATA

SREF = 5.2816 SQ.FT. XMRP = 43.0396 INCHES
LREF = 21.2828 INCHES YMRP = .0000 INCHES
BREF = 40.8119 INCHES ZMRP = 16.2000 INCHES
SCALE = .0405 SCALE

PARAMETRIC DATA

BETA = .000 B2FLAP = .000
ELEVON = -5.000 LE.MOD = 18.000

RUN NO. 113/ 0 RN/L = 1.84 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CL	CDF	CLM	CN	CAF	CLN	CSL	CY	XCP/L	L/DF
.260	-3.270	-.26520	.03030	.06820	-.26650	.01510	.00210	-.00140	-.00700	.75130	-8.74700
.260	-1.140	-.16080	.02170	.05870	-.16120	.01840	.00160	-.00170	-.00500	.79420	-7.40900
.260	-.100	-.11020	.01960	.05450	-.11020	.01940	.00140	-.00160	-.00400	.84580	-5.60900
.260	.950	-.06170	.01780	.05140	-.06140	.01880	.00130	-.00170	-.00400	.98160	-3.45800
.260	3.070	.03490	.01630	.04560	.03570	.01440	.00110	-.00140	-.00200	.14510	2.14000
.260	5.190	.12980	.01850	.04010	.13080	.00680	.00090	-.00140	.00000	.32860	6.99000
.260	8.210	.17650	.02180	.03740	.17780	.00250	.00090	-.00140	.00000	.38660	8.08400
.260	8.330	.27170	.02900	.03140	.27300	-.01060	.00090	-.00140	.00100	.60430	9.35200
.260	10.470	.37050	.03980	.02440	.37150	-.02840	.00100	-.00160	.00200	.62390	9.35200
.260	12.570	.47000	.05590	.01560	.47090	-.04770	.00080	-.00140	.00300	.63660	8.39700
.260	14.710	.57580	.08230	.00310	.57780	-.06650	.00090	-.00160	.00400	.64780	6.99000
.260	16.840	.68000	.12010	-.01120	.68560	-.08210	.00040	-.00240	.00700	.65640	5.66200
.260	17.870	.72820	.14450	-.01750	.73740	-.08590	.00060	-.00440	.00900	.65930	5.03900
.260	19.980	.80330	.18320	-.02620	.82440	-.08540	.00200	-.00150	.00500	.66250	3.95200
.260	22.060	.86740	.26320	-.03840	.90280	-.08160	.00010	-.00330	.01200	.66680	3.29500
.260	24.140	.90420	.32800	-.04860	.93640	-.07230	.00270	-.00730	.01600	.67000	2.77300
.260	26.150	.92030	.37460	-.04620	.99120	-.06940	.00180	-.00190	.00800	.66840	2.45600
.260	29.210	.93230	.43920	-.05110	1.02810	-.07160	.00140	-.00280	.01400	.66960	2.12200
	GRADIENT	.04734	-.00218	-.00356	.04787	-.00008	-.00016	-.00000	.00076	-.07737	1.73580

SSV-ATP ORBITER B2C2D2M1F1W5SE2V3K2 (ADF114) (16 FEB 73)

REFERENCE DATA

SREF = 5.2616 SQ.FT. XMRP = 43.0596 INCHES
LREF = 21.2628 INCHES YMRP = .0000 INCHES
BREF = 40.8119 INCHES ZMRP = 16.2000 INCHES
SCALE = .0403 SCALE

PARAMETRIC DATA

BETA = .000 B2FLAP = .000
ELEVON = -5.000 LE.MOD = 12.000

RUN NO. 11[illegible] RN/L = 1.84 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CL	CDF	CLM	CN	CAF	CLN	CSL	CY	XCP/L	L/DF
.260	-5.340	-.36730	.04190	.06030	-.36960	.00760	.00130	-.00180	-.00700	.73590	-8.74700
.260	-3.160	-.25910	.02790	.03790	-.26030	.01340	.00160	-.00180	-.00600	.75320	-9.27400
.260	-1.110	-.15720	.02120	.03900	-.15760	.01810	.00130	-.00170	-.00400	.79810	-7.41900
.260	-.040	-.10750	.01880	.03510	-.10750	.01870	.00120	-.00170	-.00400	.85290	-5.71600
.260	.990	-.05990	.01690	.03150	-.05960	.01790	.00120	-.00150	-.00300	.99200	-3.33300
.260	3.080	.03580	.01810	.04600	.03660	.01410	.00110	-.00140	-.00300	.19350	2.22500
.260	5.200	.13060	.01880	.04040	.13160	.00690	.00090	-.00140	-.00100	.52860	6.91700
.260	8.270	.17760	.02060	.03780	.17860	.00110	.00090	-.00120	.00000	.56610	8.58900
.260	8.360	.27310	.02900	.05160	.27440	-.01110	.00090	-.00140	.00000	.60440	9.41000
.260	10.460	.37030	.03960	.02460	.37130	-.02620	.00090	-.00140	.00100	.62370	9.33600
.260	12.620	.47160	.05740	.01530	.47270	-.04700	.00080	-.00150	.00300	.63710	8.21300
.260	14.750	.58320	.09100	-.00150	.58720	-.06040	.00490	-.00030	-.00200	.65100	6.40400
.260	16.870	.67760	.13450	-.01430	.68750	-.06790	.00430	.00270	-.00300	.65820	5.03700
.260	17.900	.72170	.16110	-.02220	.73630	-.06860	.00270	.00060	.00000	.66190	4.47900
.260	20.040	.80180	.21770	-.03490	.82780	-.07020	.00140	.00000	.00300	.66670	3.68100
.260	22.080	.85480	.27210	-.04410	.89440	-.06920	.00090	-.00420	.01200	.66950	3.14100
.260	24.160	.89660	.33000	-.04610	.93310	-.06620	.00210	-.00240	.00800	.66990	2.71600
.260	26.220	.90600	.37320	-.04530	.97780	-.06550	.00180	-.00040	.00500	.66830	2.42700
	GRADIENT	.04703	-.00190	-.00351	.04735	.00009	-.00008	.00007	.00048	-.07687	1.83648

SSV-ATP ORBITER B2C202H1F1WB5V3K2 (ADF117) (16 FEB 73)

REFERENCE DATA

SREF = 5.2816 SQ.FT. XMRP = 43.0596 INCHES
LREF = 21.2628 INCHES YMRP = .0000 INCHES
BREF = 40.8119 INCHES ZMRP = 16.2000 INCHES
SCALE = .0405 SCALE

PARAMETRIC DATA

BETA = .000 B2FLAP = .000
LE.MOD = 12.000

RUN NO. 117/ 0 RN/L = 1.64 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CL	CDF	CLM	CN	CAF	CLN	CSL	CY	XCP/L	L/DF
.260	-5.260	-.23610	.02870	.01980	-.23980	.00670	.00190	-.00020	-.00500	.68270	-8.28800
.260	-3.140	-.13520	.02070	.01060	-.13610	.01530	.00110	-.00060	-.00300	.68080	-6.51100
.260	-1.020	-.03670	.01680	.00370	-.03900	.01610	.00100	-.00040	-.00200	.68820	-2.29400
.260	.010	.00930	.01710	.00050	.00930	.01710	.00090	-.00030	-.00200	.62600	.54300
.260	1.060	.05730	.01700	-.00210	.05760	.01590	.00090	-.00030	-.00200	.66490	3.38600
.260	1.070	.05770	.01780	-.00240	.05810	.01680	.00100	-.00030	-.00200	.66690	3.21900
.260	3.150	.14840	.01990	-.00810	.14930	.01170	.00060	-.00020	.00000	.67150	7.45300
.260	5.310	.24650	.02580	-.01420	.24780	.00290	.00070	-.00010	.00000	.67280	9.52600
.260	6.350	.29300	.03050	-.01760	.29460	-.00200	.00070	-.00020	.00000	.67370	9.59100
.260	8.460	.39150	.04160	-.02540	.39340	-.01620	.00060	-.00020	.00000	.67550	9.35800
.260	10.560	.49000	.05740	-.03360	.49220	-.03330	.00060	-.00040	.00200	.67720	8.52400
.260	12.690	.59310	.07960	-.04410	.59610	-.05250	.00060	.00010	.00200	.67930	7.44400
.260	14.840	.70150	.11340	-.05890	.70710	-.07010	.00060	.00100	.00300	.68290	6.18500
.260	16.910	.78590	.17360	-.07250	.80250	-.08230	.00220	.00150	.00000	.68570	4.51900
.260	17.970	.82500	.19980	-.07780	.84450	-.08380	.00240	.00130	.00000	.68640	4.11600
.260	20.090	.88980	.25600	-.08640	.92360	-.08500	.00100	.00150	.00200	.68700	3.47500
.260	22.110	.93540	.31070	-.09200	.98350	-.08430	.00090	-.00400	.01100	.68700	3.01000
	GRADIENT	.04922	-.00012	-.00298	.04951	-.00015	-.00004	.00006	.00040	-.00231	2.27985

SSV-ATP ORBITER B2C2D2M1F1W33V3K2 (ADF118) (16 FEB 73)

REFERENCE DATA

SREF = 5.2616 SQ.FT. XMRP = 43.0596 INCHES
LREF = 21.2628 INCHES YMRP = .0000 INCHES
BREF = 40.8119 INCHES ZMRP = 16.2000 INCHES
SCALE = .0405 SCALE

PARAMETRIC DATA

BETA = 5.000 B2FLAP = .000
LE.MOD = 12.000

RUN NO. 118/ 0 RN/L = 1.84 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CL	CDF	CLM	CN	CAF	CLN	CSL	CY	XCP/L	L/DF
.260	-5.250	-.23150	.02360	.01600	-.23270	.00230	.00860	.00230	-.08700	.67720	-9.78400
.260	-3.130	-.13400	.01580	.00780	-.13470	.00850	.00770	.00100	-.08600	.67310	-8.44400
.260	-1.010	-.03340	.01290	.00010	-.03360	.01230	.00740	-.00050	-.08400	.65220	-2.58200
.260	.040	.01110	.01190	-.00240	.01110	.01190	.00750	-.00110	-.08400	.73740	.92800
.260	1.050	.03670	.01300	-.00310	.03690	.01200	.00770	-.00160	-.08400	.68380	4.34500
.260	3.160	.13100	.01570	-.01160	.13160	.00720	.00800	-.00260	-.08400	.67860	9.60700
.260	5.320	.24690	.02210	-.01750	.24790	-.00080	.00850	-.00370	-.08400	.67760	11.14100
.260	6.340	.29350	.02630	-.02060	.29460	-.00620	.00850	-.00410	-.08400	.67760	11.13300
.260	8.440	.39020	.03790	-.02800	.39150	-.01980	.00880	-.00510	-.08300	.67820	10.29200
.260	10.560	.49170	.05440	-.03780	.49340	-.03660	.00920	-.00600	-.08300	.68020	9.03000
.260	12.680	.60090	.07820	-.05060	.60340	-.05360	.00840	-.00810	-.08000	.68320	7.67900
.260	14.810	.70270	.11240	-.06230	.70610	-.07090	.00740	-.00800	-.07600	.68460	6.24800
.260	16.920	.78950	.16960	-.07440	.80470	-.08750	.01000	-.00910	-.07700	.68660	4.65200
.260	17.990	.82420	.19780	-.07760	.84500	-.08850	.01050	-.00860	-.07600	.68630	4.16600
.260	20.020	.88140	.24690	-.07860	.89450	-.09110	.01120	-.01690	-.08000	.68390	3.46000
.260	22.130	.92860	.31050	-.09320	.97720	-.08210	.01340	-.01730	-.05700	.68770	2.99000
	GRADIENT	.04503	-.00001	-.00294	.04523	-.00020	.00006	-.00060	.00023	.00243	2.90906

SSV-ATP ORBITER B2C2D2H1F1W5SV3 (ADF122) (16 FEB 73)

REFERENCE DATA

SREF = 3.2816 SQ.FT. XMRP = 43.0396 INCHES
LREF = 21.2628 INCHES YMRP = .0000 INCHES
BREF = 40.8119 INCHES ZMRP = 16.2000 INCHES
SCALE = .0405 SCALE

PARAMETRIC DATA

BETA = .000 B2FLAP = .000
LE.MOD = 12.000

RUN NO. 122/ 0 RN/L = 1.84 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CL	CDF	CLM	CN	CAF	CLN	CSL	CY	XCP/L	L/DF
.260	-5.230	-.25890	.02640	.02110	-.24050	.00650	.00170	-.00030	-.00500	.68470	-8.40000
.260	-3.130	-.13930	.02040	.01180	-.14020	.01280	.00100	-.00070	-.00300	.68330	-6.80100
.260	-1.030	-.04100	.01720	.00460	-.04130	.01650	.00090	-.00060	-.00300	.69460	-2.37900
.260	.070	.00850	.01620	.00160	.00850	.01620	.00100	-.00050	-.00300	.57100	.51100
.260	1.050	.05350	.01700	-.00100	.05380	.01600	.00100	-.00040	-.00200	.65800	3.14300
.260	3.160	.14750	.02000	-.00670	.14830	.01180	.00080	-.00050	-.00100	.66790	7.37300
.260	5.260	.24270	.02600	-.01260	.24410	.00950	.00070	-.00020	.00000	.67070	9.32500
.260	8.340	.29020	.03040	-.01620	.29160	-.00160	.00060	-.00020	.00000	.67200	9.54700
.260	8.460	.38640	.04230	-.02300	.39040	-.01530	.00060	-.00020	.00100	.67330	9.16000
.260	10.600	.49000	.05870	-.03510	.49250	-.03240	.00060	-.00040	.00200	.67660	8.34100
.260	12.710	.59070	.08010	-.04240	.59390	-.05180	.00090	.00010	.00200	.67820	7.37300
.260	14.830	.69750	.11370	-.05750	.70330	-.06660	.00140	.00100	.00100	.68230	6.13300
.260	16.930	.78160	.17340	-.07090	.79820	-.06170	.00260	.00210	-.00100	.68510	4.50600
.260	17.970	.81910	.19830	-.07510	.84040	-.06410	.00260	.00190	-.00100	.68330	4.12900
.260	20.070	.88690	.25530	-.08580	.92070	-.06460	.00090	.00160	.00200	.68660	3.47300
.260	22.150	.93500	.31020	-.09250	.98300	-.06490	.00030	-.00390	.01200	.68710	3.01300
.260	24.190	.97010	.36560	-.09060	1.03490	-.06370	.00260	-.00540	.01300	.68470	2.65100
.260	26.220	.95780	.40950	-.07910	1.03640	-.05930	.00260	-.00430	.01400	.68010	2.36100
.260	29.240	.93740	.46400	-.07860	1.06210	-.06260	.00190	-.00380	.01800	.67920	2.06300
	GRADIENT	.04556	-.00007	-.00292	.04565	-.00017	-.00002	.00007	.00033	-.00401	2.29303

SSV-ATP ORBITER B2C202M1F1W55V3 (ADF123) (16 FEB 73)

REFERENCE DATA

SREF = 5.2616 SQ.FT. XMRP = 43.0596 INCHES
LREF = 21.2628 INCHES YMRP = .0000 INCHES
BREF = 40.8119 INCHES ZMRP = 16.2000 INCHES
SCALE = .0405 SCALE

PARAMETRIC DATA

BETA = 5.000 B2FLAP = .000
LE.MOD = 12.000

RUN NO. 123/ 0 RN/L = 1.84 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CL	CDF	CLM	CN	CAF	CLN	CSL	CY	XCP/L	L/DF
.260	-5.250	-.23400	.02350	.01730	-.23510	.00200	.00820	.00230	-.08500	.67920	-9.92400
.260	-3.130	-.13500	.01730	.00850	-.13570	.00990	.00720	.00080	-.08500	.67480	-7.76100
.260	-1.010	-.03930	.01290	.00170	-.03960	.01220	.00720	-.00050	-.08500	.66730	-3.03200
.260	.020	.01020	.01240	-.00050	.01020	.01240	.00710	-.00120	-.08200	.67170	.82800
.260	1.080	.03570	.01300	-.00420	.03590	.01190	.00730	-.00180	-.08200	.67980	4.26900
.260	3.140	.14640	.01390	-.00980	.14900	.00780	.00770	-.00290	-.08300	.67600	9.28000
.260	5.310	.24210	.02210	-.01590	.24310	-.00030	.00800	-.00370	-.08300	.67590	10.94300
.260	6.330	.29060	.02640	-.01930	.29190	-.00570	.00820	-.00420	-.08200	.67620	10.99000
.260	8.460	.38630	.03600	-.02690	.38970	-.01950	.00830	-.00510	-.08300	.67730	10.21000
.260	10.590	.49170	.05430	-.03660	.49330	-.03690	.00890	-.00640	-.08200	.67950	9.05300
.260	12.720	.59810	.07870	-.04890	.60060	-.05490	.00810	-.00620	-.08000	.68220	7.59300
.260	14.820	.70030	.11540	-.06150	.70600	-.06990	.00710	-.00640	-.07400	.68440	6.17200
.260	16.930	.78680	.16790	-.07310	.80350	-.06910	.00980	-.00940	-.07500	.68590	4.69700
.260	17.980	.82270	.19660	-.07770	.84320	-.06670	.01070	-.00810	-.07700	.68640	4.18400
.260	20.070	.88470	.24970	-.07860	.89760	-.06320	.01110	-.01590	-.06200	.68370	3.47600
.260	22.090	.92160	.30750	-.08990	.96980	-.06170	.01340	-.01760	-.05700	.68650	2.99700
.260	24.200	.96770	.36670	-.09550	1.03300	-.06220	.01120	-.00650	-.06500	.68690	2.63800
.260	26.260	.97050	.40630	-.09910	1.03100	-.06330	.01150	.00000	-.07500	.68350	2.37600
.260	29.260	.97160	.46670	-.08760	1.07670	-.06600	.01760	-.00150	-.07300	.68220	2.07300
	GRADIENT	.04523	-.00020	-.00291	.04544	-.00031	.00008	-.00059	.00003	.00077	2.79510

SSV-ATP ORBITER B2C2D3H1F1W3V3 (ADF124) (16 FEB 73)

REFERENCE DATA

SREF = 5.2818 SQ.FT. XMRP = 43.0596 INCHES
LREF = 21.2628 INCHES YMRP = .0000 INCHES
BREF = 40.6119 INCHES ZMRP = 16.2000 INCHES
SCALE = .0405 SCALE

PARAMETRIC DATA

BETA = .000 B2FLAP = .000
LE.MOD = 12.000

RUN NO. 124/ 0 RN/L = 1.84 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CL	CDF	CLM	CN	CAF	CLN	CSL	CY	XCP/L	L/DF
.260	-5.260	-.23460	.02760	.01620	-.23640	.00610	.00110	-.00050	-.00400	.68050	-8.44600
.260	-3.140	-.13330	.02010	.00930	-.13420	.01270	.00100	-.00060	-.00300	.67760	-6.62500
.260	-1.030	-.03600	.01700	.00240	-.03650	.01640	.00100	-.00030	-.00300	.67610	-2.11100
.260	.000	.01090	.01670	-.00070	.01090	.01670	.00090	-.00030	-.00200	.67650	.65500
.260	1.050	.03660	.01630	-.00330	.03690	.01520	.00080	-.00030	-.00100	.67370	3.58100
.260	3.170	.15250	.02000	-.00930	.15330	.01150	.00070	-.00030	.00000	.67400	7.59700
.260	5.280	.24720	.02640	-.01590	.24860	.00550	.00070	-.00020	.00000	.67530	9.34600
.260	6.330	.29610	.03050	-.01950	.29760	-.00240	.00070	-.00010	.00000	.67590	9.75200
.260	8.430	.39160	.04210	-.02700	.39370	-.01970	.00060	.00000	.00000	.67710	9.29100
.260	10.570	.49360	.05660	-.03720	.49620	-.03330	.00090	-.00020	.00100	.67960	8.45900
.260	12.750	.59750	.06070	-.04770	.60060	-.05320	.00120	.00020	.00200	.68140	7.40000
.260	14.820	.70290	.11460	-.06170	.70690	-.06900	.00110	.00060	.00200	.68440	6.13200
.260	16.920	.78540	.17230	-.07360	.80160	-.06360	.00230	.00190	.00000	.68630	4.55800
.260	17.970	.82200	.19930	-.07930	.84340	-.06410	.00170	.00170	.00000	.68720	4.12400
.260	20.060	.89160	.25460	-.08670	.92500	-.06660	-.00020	-.00030	.00800	.68790	3.50100
.260	22.120	.93240	.31070	-.02990	.98080	-.06320	-.00030	-.00920	.01600	.68860	3.00000
.260	24.170	.96110	.36490	-.09240	1.02630	-.06060	.00250	-.00590	.01700	.68360	2.63500
.260	26.190	.94940	.40320	-.08020	1.02990	-.03710	.00220	-.00190	.01000	.68080	2.35400
.260	29.230	.84360	.46090	-.08100	1.05030	-.03960	.00250	-.00430	.02300	.68050	2.05100
	GRADIENT	.04591	-.00009	-.00294	.04558	-.00023	-.00005	.00004	.00052	-.00063	2.30110

SSV-ATP ORBITER B2C2D3M1F1W55V3 (AD#125) (16 FEB 73)

REFERENCE DATA

SREF = 5.2616 SQ.FT. XMRP = 43.0596 INCHES
LREF = 21.2626 INCHES YMRP = .0000 INCHES
BREF = 40.8119 INCHES ZMRP = 16.2000 INCHES
SCALE = .0405 SCALE

PARAMETRIC DATA

BETA = 5.000 B2FLAP = .000
LE.MOD = 12.000

RUN NO. 125/ 0 RN/L = 1.84 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CL	CDF	CLM	CN	CAF	CLN	CSL	CY	XCP/L	L/DF
.260	-5.260	-.22900	.02350	.01510	-.23020	.00240	.00770	.00200	-.08400	.67600	-9.72100
.260	-3.140	-.12960	.01610	.00660	-.13030	.00900	.00680	.00080	-.08100	.67020	-8.00300
.260	-1.040	-.03450	.01320	.00000	-.03470	.01260	.00630	-.00030	-.08000	.65000	-2.60100
.260	.000	.01040	.01240	-.00270	.01040	.01240	.00630	-.00100	-.07900	.75550	.84100
.260	1.050	.03810	.01350	-.00560	.03840	.01240	.00650	-.00160	-.07900	.68840	4.30800
.260	3.150	.13180	.01600	-.01160	.13250	.00760	.00690	-.00270	-.08000	.68020	9.44600
.260	5.260	.24600	.02240	-.01820	.24700	-.00030	.00750	-.00370	-.08000	.67910	10.97200
.260	6.330	.29440	.02650	-.02130	.29550	-.00600	.00780	-.00420	-.08100	.67880	11.07300
.260	8.450	.39400	.03810	-.02960	.39530	-.02020	.00820	-.00490	-.08200	.67960	10.33200
.260	10.570	.49580	.05520	-.03960	.49760	-.03660	.00870	-.00600	-.08300	.68150	8.97000
.260	12.690	.60230	.07990	-.05250	.60510	-.05430	.00760	-.00580	-.07900	.68430	7.53100
.260	14.800	.70310	.11500	-.06460	.70920	-.06840	.00640	-.00780	-.07600	.68610	6.11400
.260	16.900	.79100	.16850	-.07640	.80580	-.08670	.00750	-.00970	-.07600	.68750	4.69200
.260	17.960	.83150	.19770	-.08210	.83190	-.08860	.00820	-.00900	-.07700	.68810	4.20400
.260	20.020	.88200	.24840	-.07810	.89500	-.08170	.00820	-.01600	-.08500	.68450	3.47000
.260	22.110	.91220	.30460	-.08770	.95980	-.08110	.00880	-.01680	-.08000	.68610	2.99300
	GRADIENT	.04469	.00000	-.00287	.04492	-.00021	.00002	-.00056	.00019	.00324	2.82894

SSV-ATP ORBITER B2M1C2D2M1F1WSSV3 (LDF128) (16 FEB 73)

REFERENCE DATA

SREF =	5.2816 SQ.FT.	XMRP =	43.0596 INCHES		
LREF =	21.2628 INCHES	YMRP =	.0000 INCHES		
BREF =	40.8119 INCHES	ZMRP =	16.2000 INCHES		
SCALE =	.0405 SCALE				

PARAMETRIC DATA

BETA =	.000	B2FLAP =	.000
LE.MOD =	12.000	CANARD =	.000

RUN NO. 126/ 0 RN/L = 1.84 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CL	CDF	CLM	CN	CAF	CLN	CSL	CY	XCP/L	L/DF
.260	-3.290	-.24430	.03110	.00540	-.24610	.00840	.00110	-.00050	-.00600	.65870	-7.85300
.260	-3.160	-.14050	.02150	.00450	-.14150	.01370	.00110	-.00050	-.00500	.66270	-6.52500
.260	-1.040	-.04150	.01610	.00490	-.04180	.01730	.00110	-.00040	-.00400	.69670	-2.29000
.260	-.010	.00970	.01740	.00520	.00970	.01740	.00100	-.00050	-.00300	.28670	.32700
.260	.870	.05300	.01660	.00560	.05330	.01770	.00100	-.00020	-.00300	.60640	2.64300
.260	3.160	.19150	.02100	.00900	.19250	.01260	.00090	-.00010	-.00200	.62650	7.18600
.260	5.300	.23110	.02810	.01230	.23270	.00480	.00100	.00000	-.00100	.63070	6.91300
.260	6.360	.30600	.03340	.01360	.30780	-.00070	.00110	.00000	-.00100	.63220	9.14400
.260	8.500	.41040	.04690	.01690	.41260	-.01420	.00150	.00000	-.00100	.63370	8.74400
.260	10.650	.52100	.06790	.02050	.52480	-.02950	.00150	.00000	.00200	.63450	7.66300
.260	12.740	.62960	.09340	.02430	.63510	-.04580	.00220	.00040	.00200	.63480	6.59900
.260	14.970	.75230	.13600	.02310	.76240	-.06100	.00150	.00100	.00400	.63790	5.45000
.260	17.110	.85310	.19770	.02730	.87350	-.06190	.00330	.00000	.00400	.63750	4.31300
.260	18.120	.89970	.22680	.02960	.92560	-.06450	.00330	.00000	.00500	.63730	3.96500
.260	20.290	.98120	.29180	.03610	1.02140	-.06660	.00250	.00170	.00500	.63590	3.36400
.260	22.360	1.02630	.34970	.04680	1.06400	-.06820	.00240	.00010	.00800	.63280	2.94000
	GRADIENT	.04614	-.00004	.00069	.04645	-.00015	-.00003	.00007	.00048	-.00934	2.19825

SSV-ATP ORBITER B2N1C2D2M1F1W3SV3 (ADF127) (16 FEB 73)

REFERENCE DATA

SREF =	3.2816 SQ.FT.	XMRP =	43.0398 INCHES		
LREF =	21.2626 INCHES	YMRP =	.0000 INCHES		
BREF =	40.8119 INCHES	ZMRP =	16.2000 INCHES		
SCALE =	.0405 SCALE				

PARAMETRIC DATA

BETA =	.000	B2FLAP =	.000
LE.MOD =	12.000	CANARD =	20.000

RUN NO. 127/ 0 RN/L = 1.84 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CL	CDF	CLM	CN	CAF	CLN	CSL	CY	XCP/L	L/DF
.260	-5.120	-.22630	.03220	.05650	-.22830	.01180	.00130	-.00020	-.00400	.74790	-7.01900
.260	-3.000	-.11710	.02960	.06130	-.11850	.02340	.00120	-.00060	-.00200	.65460	-3.95100
.260	-.670	-.01160	.03300	.06640	-.01230	.03280	.00170	-.00040	-.00100	2.77190	-.35900
.260	.160	.03540	.03470	.07190	.03550	.03460	.00130	-.00050	.00000	-.15170	1.01800
.260	1.230	.08260	.03740	.07770	.08340	.03560	.00140	-.00060	.00000	.26140	2.20900
.260	1.250	.08280	.03870	.07690	.08370	.03690	.00150	-.00060	.00000	.26810	2.13900
.260	3.360	.17160	.04760	.08780	.17410	.03740	.00160	-.00100	.00300	.45020	3.60400
.260	3.460	.25600	.05770	.10040	.26040	.03300	.00150	-.00130	.00500	.49740	4.43100
.260	6.520	.29650	.06440	.10710	.30190	.03030	.00120	-.00140	.00700	.50950	4.60300
.260	8.640	.36970	.08060	.11200	.39750	.02130	.00130	-.00290	.01100	.53840	4.61600
.260	10.760	.50480	.10550	.10540	.51570	.00910	.00260	-.00150	.01300	.56910	4.78300
.260	12.930	.62430	.13560	.08860	.63890	-.00730	.00360	.00070	.01200	.59510	4.59500
.260	15.090	.74320	.17450	.06730	.76490	-.02530	.00600	.00080	.01600	.61510	4.26800
.260	17.130	.83930	.22550	.04120	.86850	-.03170	.00120	.00160	.00100	.63120	3.72100
.260	18.220	.89120	.25680	.03640	.92680	-.03480	-.00050	.00030	-.00200	.63350	3.46900
.260	20.370	.98220	.32420	.03680	1.03370	-.03790	-.00330	-.00030	-.00200	.63580	3.02800
.260	22.490	1.05840	.39710	.03410	1.12840	-.03730	-.00450	-.00020	-.00400	.63800	2.66100
	GRADIENT	.04543	.00273	.00426	.04604	.00219	.00004	-.00006	.00072	-.18799	1.20908

SSV-ATP ORBITER B2N1C2D2M1F1WSSV3 (ADF128) (16 FEB 73)

REFERENCE DATA

SREF = 5.2818 SQ.FT. XMRP = 43.0596 INCHES
LREF = 21.2828 INCHES YMRP = .0000 INCHES
BREF = 40.8119 INCHES ZMRP = 16.2000 INCHES
SCALE = .0405 SCALE

PARAMETRIC DATA

BETA = .000 B2FLAP = .000
LE.MOD = 12.000 CANARD = 30.000

RUN NO. 128/ 0 RN/L = 1.84 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CL	CDF	CLM	CN	CAF	CLN	CSL	CY	XCP/L	L/DF
.260	-5.220	-.22080	.04370	.07980	-.22390	.02340	.00180	-.00060	-.01300	.79110	-5.05200
.260	-3.050	-.11470	.03860	.08410	-.11660	.03240	.00160	-.00060	-.01100	.93550	-2.96600
.260	-.930	-.01730	.04110	.09390	-.01790	.04080	.00140	-.00040	-.00800	2.71610	-.42000
.260	.120	.03340	.04480	.09900	.03350	.04480	.00120	-.00030	-.00600	-.51960	.74400
.260	1.200	.08680	.05210	.11030	.08790	.05020	.00120	-.00010	-.00500	.15320	1.66600
.260	3.300	.18100	.06600	.11460	.18450	.05550	.00080	-.00010	-.00100	.40420	2.74000
.260	5.400	.25730	.07690	.11640	.26340	.05230	.00000	-.00140	.00400	.47210	3.34600
.260	6.430	.29060	.08000	.11570	.29760	.04690	-.00050	-.00040	.00500	.49620	3.63000
.260	8.540	.36520	.09200	.11590	.37490	.03660	-.00150	-.00060	.00900	.52760	3.96900
.260	10.630	.43860	.10790	.08420	.47060	.02140	.00090	.00260	-.00900	.57910	4.24700
.260	12.760	.55740	.13760	.07740	.57410	.01100	.00140	.00310	-.00700	.59660	4.05000
.260	14.950	.66750	.17840	.06700	.69090	.00000	.00130	.00200	-.00400	.61160	3.74100
.260	17.090	.76790	.22920	.04430	.82050	-.01150	-.00150	-.00230	.00600	.62860	3.43600
.260	18.140	.86920	.25600	.02300	.90190	-.02000	-.00030	.00040	.00100	.63980	3.37900
.260	20.240	.93440	.32250	.01880	1.00700	-.02760	-.00340	-.00100	.01200	.64250	2.95800
.260	22.330	1.02050	.38570	.02050	1.09050	-.03090	-.00120	.00000	.00600	.64250	2.64500
	GRADIENT	.04660	.00440	.00310	.04765	.00372	-.00012	.00009	.00158	-.19609	.90690

SSV-ATP ORBITER B2C2D2M1F1W2V3I3K2 (ADF129) (16 FEB 73)

REFERENCE DATA

SREF =	5.2816 SQ.FT.	XMRP =	43.0396 INCHES
LREF =	21.2826 INCHES	YMRP =	.0000 INCHES
BREF =	40.8119 INCHES	ZMRP =	16.2000 INCHES
SCALE =	.0405 SCALE		

PARAMETRIC DATA

BETA =	.000	B2FLAP =	.000
RUDDER =	-10.000	LE.MOD =	50.000
CANARD =	50.000		

RUN NO. 129/ 0 RN/L = 1.84 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CL	CDF	CLM	CN	CAF	CLN	CSL	CY	XCP/L	L/DF
.260	-5.260	-.23680	.02820	.02260	-.23840	.00630	.02070	-.00730	-.10200	.68780	-8.39800
.260	-3.160	-.13710	.02120	.01350	-.13800	.01360	.02030	-.00620	-.09900	.68880	-6.44400
.260	-1.040	-.04030	.01820	.00580	-.04060	.01740	.01980	-.00520	-.09500	.70710	-2.21300
.260	.000	.00700	.01700	.00290	.00700	.01700	.01950	-.00470	-.09100	.46420	.41400
.260	1.030	.05170	.01750	.00000	.05210	.01640	.01920	-.00420	-.09000	.64980	2.98100
.260	3.130	.14720	.02060	-.00610	.14810	.01270	.01880	-.00320	-.08600	.66640	7.07100
.260	5.270	.24080	.02740	-.01280	.24230	.00520	.01830	-.00230	-.08300	.67090	8.76090
.260	6.310	.28960	.03110	-.01650	.29120	-.00090	.01810	-.00190	-.08100	.67250	9.29800
.260	8.430	.38600	.04220	-.02440	.38800	-.01480	.01760	-.00130	-.07800	.67490	9.13800
.260	10.550	.48030	.05990	-.03570	.49300	-.03080	.01600	-.00040	-.07100	.67870	8.17400
.260	12.680	.59810	.08590	-.04840	.60040	-.04680	.01210	-.00080	-.05300	.68190	6.95500
.260	14.790	.69830	.13500	-.06520	.70970	-.04770	.01700	.00000	-.07200	.68630	5.17000
.260	16.890	.77390	.18430	-.07450	.79400	-.04850	.01720	.00010	-.07100	.68710	4.19800
.260	17.960	.81080	.21080	-.07800	.83630	-.04950	.01760	.00190	-.07500	.68690	3.84600
.260	20.020	.87370	.26320	-.08440	.91100	-.05190	.01800	.00220	-.07700	.68660	3.31900
.260	22.060	.92910	.31960	-.09200	.98110	-.05300	.01960	.00040	-.07800	.68710	2.90600
.260	24.150	.94800	.36980	-.08660	1.01530	-.05000	.01990	-.00440	-.08600	.68370	2.56100
.260	26.160	.93730	.40530	-.07760	1.02000	-.04960	.01940	-.00320	-.07800	.68010	2.31200
.260	29.170	.92700	.45710	-.07860	1.03220	-.05270	.02080	.01520	-.12900	.67930	2.02700
	GRADIENT	.04513	-.00010	-.00309	.04542	-.00017	-.00024	.00048	.00210	-.00599	2.18401

SSV-ATP ORBITER B2C2D2M1F1W2V3R3K2 (ADF130) (16 FEB 73)

REFERENCE DATA

SREF = 9.2816 SQ.FT. XMRP = 43.0996 INCHES
LREF = 21.2826 INCHES YMRP = .0000 INCHES
BREF = 40.8119 INCHES ZMRP = 16.2000 INCHES
SCALE = .0405 SCALE

PARAMETRIC DATA

ALPHA = .000 B2FLAP = .000
RUDDER = -10.000

RUN NO. 130/ 0 RN/L = 1.84 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	CL	CDF	CLM	CN	CAF	CLN	CSL	CY	XCP/L	L/DF
.260	-5.040	.01340	.01490	-.00020	.01340	.01490	.00480	-.00460	.05800	.65800	.89800
.260	-3.000	.01030	.01700	.00190	.01030	.01700	.01110	-.00460	-.00300	.57690	.60800
.260	-.970	.00880	.01780	.00250	.00880	.01780	.01650	-.00480	-.06000	.53600	.49800
.260	.040	.00860	.01820	.00240	.00860	.01820	.01920	-.00480	-.08900	.53760	.47200
.260	1.070	.00820	.01710	.00250	.00820	.01710	.02200	-.00460	-.11900	.52580	.47700
.260	3.070	.00880	.01610	.00080	.00880	.01610	.02750	-.00480	-.17600	.61330	.55000
.260	5.100	.00950	.01420	-.00050	.00950	.01420	.03250	-.00480	-.23100	.67360	.67400
.260	7.150	.01230	.01200	-.00220	.01230	.01200	.03570	-.00380	-.28000	.72210	1.02400
.260	9.170	.01100	.00930	-.00260	.01100	.00930	.03550	-.00180	-.31100	.75260	1.17700
.260	11.190	.01590	.00710	-.00360	.01590	.00710	.03570	.00000	-.34600	.74180	2.21000
	GRADIENT	-.00025	-.00017	-.00016	-.00025	-.00017	.00270	.00001	-.02654	.00484	-.00959

SSV-ATP ORBITER B2C2D2M1F1W2V3R3K2 (ADF131) (16 FEB 73)

REFERENCE DATA

SREF = 9.2816 SQ.FT. XMRP = 43.0996 INCHES
LREF = 21.2826 INCHES YMRP = .0000 INCHES
BREF = 40.8119 INCHES ZMRP = 16.2000 INCHES
SCALE = .0405 SCALE

PARAMETRIC DATA

ALPHA = 5.000 B2FLAP = .000
RUDDER = -10.000

RUN NO. 131/ 0 RN/L = 1.84 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	CL	CDF	CLM	CN	CAF	CLN	CSL	CY	XCP/L	L/DF
.260	-5.040	.24520	.02510	-.01370	.24650	.00250	.00280	-.00010	.07000	.67520	9.74000
.260	-3.000	.24420	.02730	-.01390	.24570	.00480	.00920	-.00110	.00700	.67240	8.92700
.260	-.980	.24370	.02780	-.01290	.24520	.00930	.01520	-.00200	-.05200	.67080	8.74000
.260	.020	.24230	.02810	-.01300	.24400	.00570	.01810	-.00230	-.08100	.67110	8.62600
.260	1.030	.24280	.02710	-.01380	.24430	.00470	.02100	-.00270	-.11000	.67240	8.94400
.260	3.120	.24390	.02550	-.01490	.24520	.00290	.02730	-.00370	-.17100	.67410	9.96300
.260	5.110	.24470	.02390	-.01690	.24590	.00120	.03310	-.00440	-.23100	.67720	10.21500
.260	7.150	.24510	.02180	-.01840	.24610	-.00070	.03720	-.00500	-.28400	.67930	11.22000
.260	9.160	.24510	.01930	-.01940	.24580	-.00320	.03840	-.00480	-.32400	.68120	12.64700
.260	11.140	.24370	.01640	-.02060	.24620	-.00580	.03880	-.00450	-.36000	.68320	14.61200
	GRADIENT	-.00009	-.00030	-.00019	-.00012	-.00031	.00295	-.00042	-.02903	.00035	.10450

SSV-ATP ORBITER B2C202M1F1W2V3R3K2 (ADF132) (16 FEB 73)

REFERENCE DATA

SREF = 5.2616 SQ.FT. XMRP = 43.0598 INCHES
LREF = 21.2628 INCHES YMRP = .0000 INCHES
BREF = 40.8118 INCHES ZMRP = 16.2000 INCHES
SCALE = .0405 SCALE

PARAMETRIC DATA

ALPHA = 10.000 B2FLAP = .000
RUDDER = -10.000

RUN NO. 132/ 0 RN/L = 1.84 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	CL	CDF	CLM	CN	CAF	CLN	CSL	CY	XCP/L	L/DF
.260	-5.050	.48920	.05870	-.03700	.49130	-.03390	.00120	.00330	.07700	.67980	8.62700
.260	-3.020	.48900	.05790	-.03510	.49130	-.03270	.00760	.00180	.01500	.67830	8.44500
.260	-.980	.49010	.06010	-.03520	.49290	-.03060	.01310	.00030	-.04000	.67820	8.14600
.260	.010	.49390	.06100	-.03590	.49670	-.03050	.01580	-.00030	-.06900	.67860	8.09200
.260	1.020	.49350	.06070	-.03650	.49650	-.03070	.01390	-.00110	-.09800	.67910	8.12500
.260	3.080	.49590	.05970	-.03690	.49850	-.03210	.02550	-.00250	-.16100	.68090	8.30000
.260	5.090	.49770	.05930	-.04080	.50000	-.03380	.03160	-.00400	-.22100	.68230	8.52500
.260	7.190	.49720	.05730	-.04240	.49930	-.03460	.03520	-.00510	-.27300	.68360	8.67500
.260	9.200	.49850	.05670	-.04460	.50040	-.03550	.03700	-.00590	-.31800	.68530	8.79000
.260	11.190	.50070	.05710	-.04670	.50270	-.03550	.03770	-.00670	-.35800	.68670	8.78100
	GRADIENT	.00119	.00029	-.00063	.00123	.00008	.00293	-.00070	-.02887	.00043	-.02227

SSV-ATP ORBITER B2C202M1F1W2V3R3K2 (ADF133) (16 FEB 73)

REFERENCE DATA

SREF = 5.2616 SQ.FT. XMRP = 43.0598 INCHES
LREF = 21.2628 INCHES YMRP = .0000 INCHES
BREF = 40.8118 INCHES ZMRP = 16.2000 INCHES
SCALE = .0405 SCALE

PARAMETRIC DATA

ALPHA = 10.000 B2FLAP = .000
RUDDER = -10.000

RUN NO. 133/ 0 RN/L = 1.84 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	CL	CDF	CLM	CN	CAF	CLN	CSL	CY	XCP/L	L/DF
.260	-5.080	.73500	.15040	-.07180	.73080	-.04750	.00070	.00450	.07700	.68780	4.60100
.260	-3.010	.73540	.14190	-.07050	.73140	-.04600	.00690	.00270	.01800	.68710	4.58300
.260	-.980	.73560	.14190	-.06980	.73170	-.04570	.01360	.00140	-.04000	.68670	4.55200
.260	.010	.73680	.14210	-.06980	.73280	-.04550	.01690	.00060	-.07000	.68670	4.54300
.260	1.070	.73750	.14190	-.07030	.73350	-.04550	.02090	.00000	.10200	.68690	4.55200
.260	3.100	.74000	.14130	-.07200	.73590	-.04720	.02840	-.00040	-.17000	.68770	4.58400
.260	5.090	.74150	.13930	-.07230	.73680	-.05040	.01290	-.00370	-.22000	.68780	4.68200
.260	7.140	.74130	.13830	-.07320	.73630	-.05040	.03510	-.01010	-.25700	.68650	4.68100
.260	9.180	.73400	.13820	-.07360	.74930	-.04410	.03070	-.01500	-.29500	.68480	4.63900
.260	11.180	.73390	.13830	-.07340	.74930	-.04400	.03720	-.01700	-.33600	.68380	4.62800
	GRADIENT	.00078	.00008	-.00071	.00079	-.00017	.00351	-.00092	-.03072	.00010	.00341

REPRODUCIBILITY OF THE ORIGINAL PAGE IS POOR

SSV-ATP ORBITER B2C2D2M1F1W2V3R3K2 (ADF134) (16 FEB 73)

REFERENCE DATA

SREF = 9.2816 SQ.FT. XMRP = 43.0596 INCHES
LREF = 21.2626 INCHES YMRP = .0000 INCHES
BREF = 40.8119 INCHES ZMRP = 16.2000 INCHES
SCALE = .0405 SCALE

PARAMETRIC DATA

ALPHA = 18.000 B2FLAP = .000
RUDDER = -10.000

RUN NO. 134/ 0 RN/L = 1.84 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	CL	CDF	CLM	CN	CAF	CLN	CSL	CY	XCP/L	L/DF
.260	-5.040	.64040	.23310	-.08320	.87120	-.05100	.00620	.00770	.06900	.68770	3.57500
.260	-2.990	.63910	.23600	-.08040	.87020	-.04980	.00710	.00620	.00900	.68660	3.55500
.260	-.980	.63880	.23670	-.07930	.87020	-.04910	.01400	.00380	-.04700	.68600	3.54300
.260	.000	.64050	.23600	-.07960	.87160	-.04960	.01790	.00310	-.07800	.68610	3.54600
.260	1.060	.64120	.23650	-.08070	.87240	-.05010	.02260	.00260	-.11300	.68660	3.55600
.260	3.100	.64340	.23750	-.08260	.87480	-.05010	.02970	.00010	-.17100	.68740	3.55300
.260	5.060	.64210	.23650	-.08440	.87320	-.05030	.03490	-.00470	-.21600	.68820	3.56000
.260	7.120	.63960	.23690	-.08660	.87090	-.04980	.03960	-.00690	-.27100	.68930	3.54300
.260	9.130	.63470	.23410	-.08360	.86550	-.05000	.04210	-.01290	-.31000	.68820	3.56400
.260	11.190	.63780	.23340	-.08560	.86820	-.05150	.04260	-.01600	-.34900	.68900	3.56600
	GRADIENT	.00075	.00018	-.00043	.00079	-.00009	.00377	-.00096	-.02987	.00015	.00035

SSV-ATP ORBITER B2C2D2M1F1W2V3R3K2 (ADF135) (16 FEB 73)

REFERENCE DATA

SREF = 9.2816 SQ.FT. XMRP = 43.0596 INCHES
LREF = 21.2626 INCHES YMRP = .0000 INCHES
BREF = 40.8119 INCHES ZMRP = 16.2000 INCHES
SCALE = .0405 SCALE

PARAMETRIC DATA

ALPHA = 20.000 B2FLAP = .000
RUDDER = -10.000

RUN NO. 135/ 0 RN/L = 1.84 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	CL	CDF	CLM	CN	CAF	CLN	CSL	CY	XCP/L	L/DF
.260	-5.060	.69780	.28600	-.08950	.94120	-.05400	-.00130	.00820	.07000	.68760	3.11600
.260	-3.020	.69700	.28900	-.08670	.94100	-.05300	.00360	.00550	.01300	.68340	3.10300
.260	-.980	.69390	.28650	-.08470	.93740	-.05220	.01450	.00440	-.05000	.68370	3.09600
.260	.030	.69540	.29260	-.08650	.94000	-.05130	.01870	.00320	-.08100	.68640	3.08000
.260	1.040	.69760	.29110	-.08750	.94220	-.05120	.02330	.00170	-.11100	.68660	3.08900
.260	3.070	.69710	.29050	-.08900	.94150	-.05160	.03110	-.00120	-.16800	.68740	3.08900
.260	5.090	.69910	.29140	-.09130	.94570	-.05150	.03670	-.00420	-.21800	.68830	3.08900
.260	7.130	.69730	.28960	-.09130	.94140	-.05240	.04070	-.00680	-.26700	.68840	3.09700
.260	9.100	.69710	.29010	-.09270	.94140	-.05180	.04400	-.00910	-.31900	.68890	3.09100
.260	11.190	.69700	.28770	-.09350	.94040	-.05400	.04490	-.00990	-.36400	.68920	3.11700
	GRADIENT	.00022	.00032	-.00047	.00031	.00026	.00417	-.00118	-.02977	.00019	-.00271

SSV-ATP ORBITER B2C2D2H1F1W2V3R3K2 (ADF136) (16 FEB 73)

REFERENCE DATA

SREF = 5.2616 SQ.FT. XMRP = 43.0396 INCHES
LREF = 21.2628 INCHES YMRP = .0000 INCHES
BREF = 40.8119 INCHES ZMRP = 16.2000 INCHES
SCALE = .0405 SCALE

PARAMETRIC DATA

BETA = .000 B2FLAP = .000
RUDDER = -20.000

RUN NO. 136/ 0 AN/L = 1.84 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CL	CDF	CLM	CN	CAF	CLN	CSL	CY	XCP/L	L/DF
.260	-3.200	-.24130	.03600	.03000	-.24390	.01370	.03720	-.01190	-.18000	.69880	-6.68600
.260	-3.110	-.14170	.02910	.02050	-.14310	.02130	.03700	-.01050	-.17700	.70670	-4.86900
.260	-1.080	-.04550	.02600	.01290	-.04600	.02510	.03730	-.00900	-.17500	.76100	-1.75000
.260	.010	.00100	.02460	.00970	.00100	.02460	.03750	-.00820	-.17600	-3.09400	.04100
.260	1.070	.04950	.02550	.00820	.04990	.02460	.03770	-.00720	- 17600	.60080	1.93600
.260	3.160	.14300	.02750	.00030	.14430	.01950	.03760	-.00580	-.17200	.64900	5.18500
.260	5.150	.23720	.03460	-.00650	.23930	.01320	.03770	-.00420	-.17200	.66080	6.84600
.260	6.240	.28540	.03810	-.01000	.28790	.00630	.03760	-.00330	-.17000	.66380	7.48200
.260	8.440	.38080	.04940	-.01660	.38390	-.00700	.03760	-.00180	-.17100	.66920	7.70600
.260	10.560	.48650	.06700	-.03000	.49250	-.02360	.03610	-.00030	-.16300	.67410	7.28700
.260	12.700	.59540	.09260	-.04320	.60120	-.04060	.03210	.00010	-.14400	.67840	6.42900
.260	14.820	.69470	.14300	-.05950	.70820	-.05950	.03690	.00180	-.16400	.68320	4.85700
.260	16.900	.77160	.19180	-.06890	.79410	-.04070	.03720	.00280	-.16400	.68430	4.02100
.260	17.960	.80510	.21700	-.07100	.83280	-.04180	.03770	.00460	-.16900	.68370	3.70900
.260	20.050	.86545	.26800	-.07640	.90490	-.04480	.03830	.00620	-.17200	.68340	3.22800
.260	22.130	.91640	.32570	-.08330	.97350	-.04420	.03900	.00640	-.17200	.68380	2.81900
.260	24.170	.94020	.37580	-.07640	1.01170	-.04220	.03870	.01020	-.17700	.68060	2.50100
.260	26.200	.93670	.41490	-.07150	1.02330	-.04210	.03710	.00920	-.16300	.67760	2.26200
.260	29.250	.93810	.46850	-.06870	1.04750	-.04960	.03570	.01060	-.15600	.67390	2.00200
	GRADIENT	.04514	-.00125	-.00320	.04537	-.00029	.00010	.00076	.00067	-.01533	1.61056

SSV-ATP ORBITER B2C2D2M1F1W2V3R3K2 (ADF137) (16 FEB 73)

REFERENCE DATA

SREF = 9.2816 SQ.FT. XMRP = 43.0596 INCHES
LREF = 21.2828 INCHES YMRP = .0000 INCHES
BREF = 40.8119 INCHES ZMRP = 16.2000 INCHES
SCALE = .0409 SCALE

PARAMETRIC DATA

ALPHA = .000 B2FLAP = .000
RUDDER = -20.000

RUN NO. 137/ 0 RN/L = 1.84 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	CL	CDF	CLM	CN	CAF	CLN	CSL	CY	XCP/L	L/DF
.260	-5.010	.00470	.02240	.00710	.00470	.02240	.02370	-.00860	-.02800	.06000	.21200
.260	-2.960	.00360	.02370	.00900	.00360	.02370	.03030	-.00870	-.09200	-.32110	.13400
.260	-.950	.00340	.02500	.00970	.00340	.02500	.03460	-.00810	-.14500	-.46950	.13600
.260	.070	.00490	.02460	.00930	.00490	.02460	.03750	-.00800	-.17500	-.09950	.20000
.260	1.070	.00170	.02470	.00920	.00170	.02470	.04010	-.00810	-.20300	-1.41760	.07000
.260	3.160	.00160	.02290	.00780	.00160	.02290	.04710	-.00840	-.26800	-1.26230	.07000
.260	5.120	.00570	.02090	.00560	.00570	.02090	.04970	-.00890	-.25900	.25220	.27500
.260	7.150	.00720	.01860	.00350	.00720	.01860	.04820	-.00800	-.31400	.46820	.38800
.260	9.160	.00800	.01570	.00280	.00800	.01570	.04550	-.00470	-.34200	.50990	.51000
.260	11.160	.01100	.01310	.00110	.01100	.01310	.04340	-.00250	-.36300	.60780	.83700
	GRADIENT	-.00038	-.00014	-.00020	-.00038	-.00014	.00275	.00004	-.02879	-.18491	-.01563

SSV-ATP ORBITER B2C2D2M1F1W2V3R3K2 (ADF138) (16 FEB 73)

REFERENCE DATA

SREF = 9.2816 SQ.FT. XMRP = 43.0596 INCHES
LREF = 21.2828 INCHES YMRP = .0000 INCHES
BREF = 40.8119 INCHES ZMRP = 16.2000 INCHES
SCALE = .0409 SCALE

PARAMETRIC DATA

ALPHA = 5.000 B2FLAP = .000
RUDDER = -20.000

RUN NO. 138/ 0 RN/L = 1.84 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	CL	CDF	CLM	CN	CAF	CLN	CSL	CY	XCP/L	L/DF
.260	-5.000	.24030	.03130	-.00910	.24220	.00920	.02260	-.00240	-.02000	.66490	7.61300
.260	-2.970	.23950	.03270	-.00730	.24150	.01050	.02940	-.00310	-.08500	.66180	7.30200
.260	-.950	.23870	.03410	-.00660	.24060	.01200	.03440	-.00360	-.14000	.66080	6.98100
.260	.070	.23900	.03410	-.00670	.24110	.01190	.03780	-.00400	-.17200	.66100	6.99500
.260	1.100	.23870	.03390	-.00700	.24070	.01140	.04060	-.00450	-.20200	.66150	7.11000
.260	3.140	.24140	.03300	-.00690	.24340	.01060	.04010	-.00390	-.26800	.66450	7.30800
.260	5.120	.24230	.03090	-.01130	.24410	.00850	.03010	-.00740	-.29100	.66830	7.61700
.260	7.120	.24390	.02810	-.01350	.24540	.00550	.04920	-.00880	-.30400	.67170	8.03600
.260	9.150	.24370	.02540	-.01450	.24500	.00260	.04660	-.00740	-.33200	.67340	9.58100
.260	11.140	.24420	.02260	-.01590	.24550	.00000	.04430	-.00670	-.33400	.67570	10.78900
	GRADIENT	.00009	.00021	.00003	.00007	.00020	.00306	-.00037	-.03010	-.00009	-.04379

SSV-ATP ORBITER B2C2D2M1F1W2V3R3K2 (ADF139) (16 FEB 73)

REFERENCE DATA

SREF = 9.2816 SQ.FT. XMRP = 43.0396 INCHES
LREF = 21.2826 INCHES YMRP = .0000 INCHES
BREF = 40.8119 INCHES ZMRP = 16.2000 INCHES
SCALE = .0405 SCALE

PARAMETRIC DATA

ALPHA = 10.000 B2FLAP = .000
RUDDER = -20.000

RUN NO. 139/ 0 RN/L = 1.84 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	CL	CDF	CLM	CN	CAF	CLN	CSL	CY	XCP/L	L/DF
.260	-5.020	.48450	.06220	-.03150	.48770	-.02750	.02030	.00260	-.00800	.67540	7.78700
.260	-2.980	.48480	.06400	-.02970	.48830	-.02570	.02770	.00140	-.07300	.67410	7.57000
.260	-.940	.48910	.06690	-.03000	.49300	-.02370	.03270	.00040	-.13100	.67410	7.30000
.260	.040	.48940	.06720	-.03020	.49340	-.02360	.03580	-.00020	-.16100	.67420	7.27600
.260	1.090	.48970	.06720	-.03040	.49370	-.02360	.03920	-.00100	-.19200	.67430	7.28100
.260	3.110	.49110	.06570	-.03200	.49480	-.02560	.04670	-.00270	-.25800	.67560	7.47300
.260	5.110	.49370	.06500	-.03510	.49730	-.02650	.05000	-.00510	-.29300	.67790	7.58600
.260	7.050	.49560	.06320	-.03790	.49880	-.02630	.03430	-.01120	-.18100	.68010	7.83500
.260	9.150	.49800	.06200	-.04070	.50100	-.03000	.04070	-.00750	-.35500	.68210	8.02000
.260	11.150	.50020	.06210	-.04360	.50310	-.03080	.04430	-.00820	-.35800	.68430	8.05500
	GRADIENT	.00096	.00027	-.00036	.00099	.00002	.00313	-.00068	-.03005	.00025	-.01923

SSV-ATP ORBITER B2C2D2M1F1W2V3R3K2 (ADF140) (16 FEB 73)

REFERENCE DATA

SREF = 9.2816 SQ.FT. XMRP = 43.0396 INCHES
LREF = 21.2826 INCHES YMRP = .0000 INCHES
BREF = 40.8119 INCHES ZMRP = 16.2000 INCHES
SCALE = .0405 SCALE

PARAMETRIC DATA

ALPHA = 15.000 B2FLAP = .000
RUDDER = -20.000

RUN NO. 140/ 0 RN/L = 1.84 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	CL	CDF	CLM	CN	CAF	CLN	CSL	CY	XCP/L	L/DF
.260	-5.020	.72950	.16360	-.08600	.74640	-.04170	.02010	.00570	-.00800	.68500	4.45800
.260	-3.010	.72910	.16390	-.08440	.74670	-.03950	.02670	.00430	-.07100	.68410	4.39300
.260	-.930	.72900	.16700	-.08280	.74690	-.03850	.03310	.00280	-.13100	.68320	4.36400
.260	.080	.72850	.16720	-.08320	.74650	-.03800	.03710	.00260	-.16400	.68350	4.35900
.260	1.040	.73000	.16730	-.08350	.74800	-.03810	.04060	.00180	-.18500	.68360	4.35600
.260	3.120	.73430	.16690	-.08490	.75200	-.04000	.04900	.00110	-.26500	.68410	4.40000
.260	5.120	.73760	.16350	-.08600	.75420	-.04410	.05040	-.00370	-.26800	.68460	4.51000
.260	7.150	.73670	.16310	-.08460	.75320	-.04420	.05050	-.01040	-.31000	.68600	4.51600
.260	9.140	.72940	.16300	-.08460	.74660	-.04190	.04050	-.01540	-.33600	.68630	4.47500
.260	11.140	.72810	.16250	-.07030	.74470	-.04230	.04730	-.01730	-.36300	.68730	4.46300
	GRADIENT	.00041	.00017	-.00011	.00083	-.00009	.00366	-.00052	-.03166	.00002	.00061

SSV-ATP ORBITER B2C2D2M1F1W2V3R3K2 (ADF143) (16 FEB 73)

REFERENCE DATA

SREF = 3.2816 SQ.FT. XMRP = 43.0596 INCHES
LREF = 21.2626 INCHES YMRP = .0000 INCHES
BREF = 40.8119 INCHES ZMRP = 18.2000 INCHES
SCALE = .0405 SCALE

PARAMETRIC DATA

ALPHA = 18.000 B2FLAP = .000
RUDDER = -20.000

RUN NO. 143/ 0 RN/L = 1.84 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	CL	CDF	CLM	CN	CAF	CLN	CSL	CY	XCP/L	L/DF
.260	-5.030	.83180	.23940	-.07600	.86440	-.04390	.01330	.00860	.03400	.68570	3.47300
.260	-3.010	.83540	.24120	-.07490	.86840	-.04350	.01780	.00480	.00100	.68410	3.46200
.260	-.990	.83500	.24300	-.07400	.86870	-.04180	.02160	.00060	-.02900	.68370	3.45500
.260	.000	.83720	.24540	-.07450	.87060	-.04220	.02400	-.00050	-.04500	.68360	3.45800
.260	1.030	.83740	.24250	-.07490	.87070	-.04320	.02660	-.00250	-.06100	.68370	3.45200
.260	3.020	.83890	.24210	-.07030	.87160	-.04370	.03150	-.00630	-.09500	.68460	3.46300
.260	5.020	.83720	.24260	-.07770	.87060	-.04280	.03430	-.01060	-.12500	.68550	3.44700
.260	7.040	.83970	.24270	-.08150	.87290	-.04370	.03640	-.01470	-.15600	.68690	3.45900
.260	9.070	.82920	.23950	-.07810	.86200	-.04320	.03690	-.02060	-.18500	.68580	3.46100
.260	11.070	.83310	.23860	-.08040	.86540	-.04330	.03470	-.02330	-.21400	.68660	3.49100
	GRADIENT	.00038	.00011	-.00022	.00058	-.00010	.00229	-.00182	-.01591	.00007	.00099

SSV-ATP ORBITER B2C2D2M1F1W2V3R3K2 (ADF144) (16 FEB 73)

REFERENCE DATA

SREF = 3.2816 SQ.FT. XMRP = 43.0596 INCHES
LREF = 21.2626 INCHES YMRP = .0000 INCHES
BREF = 40.8119 INCHES ZMRP = 18.2000 INCHES
SCALE = .0405 SCALE

PARAMETRIC DATA

ALPHA = 20.000 B2FLAP = .000
RUDDER = -20.000

RUN NO. 144/ 0 RN/L = 1.84 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	CL	CDF	CLM	CN	CAF	CLN	CSL	CY	XCP/L	L/DF
.260	-5.030	.88960	.29270	-.08410	.93530	-.04680	.01220	.00930	.03100	.68560	3.03600
.260	-3.010	.89360	.29530	-.08160	.94000	-.04540	.01760	.00520	.00000	.68440	3.02500
.260	-.990	.89610	.29790	-.08200	.94330	-.04420	.02230	.00040	-.02600	.68440	3.00800
.260	-.020	.89660	.29770	-.08240	.94370	-.04490	.02480	-.00170	-.04200	.68450	3.01100
.260	1.000	.89800	.29820	-.08400	.94520	-.04490	.02760	-.00390	-.05800	.68310	3.01000
.260	3.020	.89360	.29660	-.08440	.94330	-.04360	.03340	-.00900	-.09100	.68540	2.99700
.260	5.010	.89980	.29990	-.08800	.94730	-.04340	.03660	-.01170	-.12200	.68670	2.99800
.260	7.050	.89760	.29790	-.08660	.94490	-.04470	.03650	-.01600	-.15100	.68710	3.01300
.260	9.080	.89640	.29630	-.08970	.94490	-.04640	.03660	-.01780	-.18700	.68730	3.03100
.260	11.100	.89720	.29490	-.09040	.94310	-.04770	.03660	-.01940	-.21900	.68790	3.04600
	GRADIENT	.00042	.00034	-.00049	.00039	.00025	.00262	-.00219	-.01509	.00018	-.00409

SSV-ATP ORBITER B2C2D2M1F1V3K2 (ADF147) (16 FEB 73)

REFERENCE DATA

SREF = 5.2616 SQ.FT. XMRP = 45.0396 INCHES
LREF = 21.2626 INCHES YMRP = .0000 INCHES
BREF = 40.8119 INCHES ZMRP = 16.2000 INCHES
SCALE = .0405 SCALE

PARAMETRIC DATA

BETA = .000 B2FLAP = .000

RUN NO. 147/ 0 RN/L = 1.84 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CL	CDF	CLM	CN	CAF	CLN	CSL	CY	XCP/L	L/DF
.260	-5.050	-.04160	.01620	-.01080	-.04280	.01240	.00120	-.00080	-.00300	.54960	-2.56600
.260	-3.030	-.03000	.01380	-.00450	-.03070	.01220	.00120	-.00070	-.00300	.59110	-2.17000
.260	-1.010	-.01990	.01160	.00100	-.02010	.01140	.00150	-.00060	-.00300	.66990	-1.68400
.260	.000	-.01500	.01110	.00360	-.01301	.01110	.00140	-.00060	-.00300	.76730	-1.17300
.260	.990	-.00720	.01100	.00690	-.00700	.01110	.00140	-.00060	-.00200	1.00530	-.65700
.260	2.990	.00930	.01060	.01170	.00380	.01060	.00110	-.00050	-.00200	-.54070	.30700
.260	5.010	.01630	.01210	.01650	.01730	.01060	.00110	-.00040	-.00200	.27390	1.34600
.260	6.050	.02200	.01250	.01950	.02320	.01010	.00100	-.00040	-.00100	.31680	1.79900
.260	8.060	.03400	.01270	.02390	.03540	.00780	.00100	-.00030	-.00100	.38320	2.66900
.260	10.070	.04780	.01420	.02600	.04960	.00560	.00100	-.00020	.00000	.42620	3.36000
.260	12.130	.06310	.01780	.03150	.06540	.00420	.00080	-.00020	.00000	.45900	3.53200
.260	14.160	.07670	.02160	.03450	.07960	.00220	.00070	-.00010	.00000	.47830	3.53900
.260	16.160	.09220	.02570	.03720	.09570	-.00090	.00070	-.00020	.00000	.49590	3.58600
.260	17.130	.10010	.02910	.03830	.10420	-.00160	.00060	-.00020	.00000	.50430	3.42900
.260	19.160	.11660	.03530	.04080	.12170	-.00490	.00070	-.00010	.00000	.51720	3.30500
.260	21.230	.13140	.04260	.04290	.13790	-.00780	.00040	-.00010	.00100	.52670	3.08100
.260	23.240	.14820	.05070	.04540	.15620	-.01190	.00020	-.00010	.00200	.53480	2.92300
.260	25.260	.16270	.05950	.04600	.17250	-.01560	.00020	-.00020	.00200	.53980	2.73300
.260	28.320	.18650	.07590	.05140	.20020	-.02160	-.00010	-.00010	.00300	.54630	2.45900
	GRADIENT	.00561	-.00049	.00269	.00581	-.00025	-.00002	.00003	.00020	-.15204	.42141

SSV-ATP ORBITER B2C2D2M1F1V3K2 (ADF148) (16 FEB 73)

REFERENCE DATA

SREF = 9.2818 SQ.FT. XMRP = 43.0396 INCHES
LREF = 21.2826 INCHES YMRP = .0000 INCHES
BREF = 40.8119 INCHES ZMRP = 16.2000 INCHES
SCALE = .0403 SCALE

PARAMETRIC DATA

ALPHA = .000 B2FLAP = .000

RUN NO. 148/ 0 RN/L = 1.64 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	CL	CDF	CLM	CN	CAF	CLN	CSL	CY	XCP/L	L/DF
.260	-5.050	-.01260	.00810	.00250	-.01260	.00810	-.00150	.00660	.06500	.72640	-1.54200
.260	-3.020	-.01320	.01010	.00310	-.01320	.01010	-.00030	.00360	.03800	.74520	-1.29700
.260	-1.010	-.01310	.01120	.00340	-.01310	.01120	.00100	.00070	.01000	.75340	-1.16900
.260	.000	-.01300	.01140	.00360	-.01300	.01140	.00140	-.00060	-.00200	.75900	-1.14300
.260	1.000	-.01420	.01120	.00370	-.01420	.01120	.00160	-.00200	-.01400	.75420	-1.26300
.260	3.010	-.01360	.01150	.00290	-.01360	.01150	.00310	-.00500	-.04200	.73420	-1.16400
.260	5.010	-.01320	.00990	.00190	-.01320	.00990	.00430	-.00790	-.06900	.70870	-1.33600
.260	7.050	-.01170	.00790	.00120	-.01170	.00790	.00550	-.01050	-.09700	.69270	-1.47300
.260	9.010	-.01140	.00650	.00150	-.01140	.00650	.00370	-.01250	-.12400	.70450	-1.78700
.260	11.030	-.01060	.00440	.00220	-.01060	.00440	.00510	-.01390	-.14900	.73210	-2.41500
	GRADIENT	-.00011	.00021	-.00001	-.00011	.00021	.00055	-.00145	-.01313	-.00160	.01221

SSV-ATP ORBITER B2C2D2M1F1V3K2 (AE '149) (16 FEB 73)

REFERENCE DATA

SREF = 9.2818 SQ.FT. XMRP = 43.0396 INCHES
LREF = 21.2826 INCHES YMRP = .0000 INCHES
BREF = 40.8119 INCHES ZMRP = 16.2000 INCHES
SCALE = .0403 SCALE

PARAMETRIC DATA

ALPHA = 3.000 B2FLAP = .000

RUN NO. 149/ 0 RN/L = 1.64 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	CL	CDF	CLM	CN	CAF	CLN	CSL	CY	XCP/L	L/DF
.260	-5.040	.01600	.00940	.01420	.01670	.00780	-.00190	.00360	.06600	.34880	1.90200
.260	-3.040	.01660	.01090	.01580	.01770	.00930	-.00060	.00330	.03900	.29580	1.55700
.260	-1.000	.01580	.01110	.01660	.01670	.00970	.00070	.00070	.01200	.25640	1.42100
.260	-.030	.01630	.01160	.01660	.01630	.01020	.00100	-.00040	.00000	.24260	1.32300
.260	.980	.01580	.01160	.01630	.01690	.01030	.00150	-.00150	-.01300	.26220	1.33000
.260	3.010	.01580	.01070	.01570	.01670	.00930	.00270	-.00420	-.04000	.27820	1.47300
.260	5.000	.01750	.00980	.01450	.01650	.00820	.00400	-.00670	-.06800	.33950	1.79000
.260	7.010	.01910	.00800	.01320	.01970	.00830	.00490	-.00880	-.09500	.38410	2.36600
.260	9.020	.01990	.00800	.01310	.02040	.00430	.00360	-.01070	-.12400	.39550	3.27600
.260	11.020	.02030	.00390	.01390	.02080	.00210	.00520	-.01220	-.15000	.38310	5.10700
	GRADIENT	.00009	-.00019	-.00021	.00008	.00014	.00036	-.00124	-.01325	.00618	.02919

SSV-ATP ORBITER B2C2D2M1F1V5K2 (ADF150) (16 FEB 73)

REFERENCE DATA

SREF = 5.2616 SQ.FT. XMRP = 43.0596 INCHES
LREF = 21.2628 INCHES YMRP = .0000 INCHES
BREF = 40.8119 INCHES ZMRP = 16.2000 INCHES
SCALE = .0403 SCALE

PARAMETRIC DATA

ALPHA = 10.000 B2FLAP = .000

RUN NO. 150/ 0 RN/L = 1.84 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	CL	CDF	CLM	CN	CAF	CLN	CSL	CY	XCP/L	L/DF
.260	-5.040	.05190	.01350	.02490	.05350	.00420	-.00210	.00490	.06800	.46880	5.85700
.260	-3.020	.04940	.01410	.02670	.05110	.00530	-.00070	.00280	.03900	.44310	5.48700
.260	-.980	.04820	.01460	.02750	.05010	.00600	.00040	.00070	.01300	.43220	5.28800
.260	-.020	.04830	.01520	.02790	.05020	.00650	.00090	-.00020	.00000	.43020	5.17200
.260	1.000	.04870	.01520	.02750	.04870	.00680	.00140	-.00130	-.01300	.42610	5.06600
.260	2.990	.04870	.01400	.02640	.05040	.00530	.00250	-.00340	-.03800	.44220	5.48100
.260	5.010	.04960	.01240	.02490	.05100	.00350	.00380	-.00540	-.06700	.45650	5.97100
.260	7.020	.05270	.01130	.02310	.05390	.00190	.00490	-.00740	-.09600	.46030	6.64000
.260	9.040	.05320	.01010	.02230	.05420	.00060	.00590	-.00940	-.12600	.46700	5.25300
.260	11.060	.05570	.00820	.02230	.05430	-.00130	.00650	-.01090	-.15700	.46730	6.35700
	GRADIENT	-.00018	.00002	-.00004	-.00018	.00004	.00053	-.00103	-.01284	-.00045	-.01514

SSV-ATP ORBITER B2C2D2M1F1V5K2 (ADF151) (16 FEB 73)

REFERENCE DATA

SREF = 5.2616 SQ.FT. XMRP = 43.0596 INCHES
LREF = 21.2628 INCHES YMRP = .0000 INCHES
BREF = 40.8119 INCHES ZMRP = 16.2000 INCHES
SCALE = .0403 SCALE

PARAMETRIC DATA

ALPHA = 15.000 B2FLAP = .000

RUN NO. 151/ 0 RN/L = 1.84 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	CL	CDF	CLM	CN	CAF	CLN	CSL	CY	XCP/L	L/DF
.260	-5.090	.08640	.02310	.03170	.09140	-.00070	-.00220	.00400	.06700	.51270	5.61300
.260	-3.010	.08490	.02260	.03410	.08790	-.00030	-.00090	.00250	.03900	.49640	5.74900
.260	-1.010	.08410	.02310	.03540	.08740	.00090	.00030	.00070	.01400	.48930	5.55900
.260	.000	.08460	.02450	.03550	.08810	.00150	.00060	-.00020	.00200	.49040	5.45400
.260	1.000	.08390	.02360	.03570	.08720	.00110	.00130	-.00110	-.01000	.48790	5.92200
.260	3.020	.08340	.02200	.03420	.08650	.00030	.00220	-.00300	-.03600	.49340	5.63000
.260	5.020	.08700	.02090	.03220	.08940	-.00260	.00320	-.00450	-.06400	.50730	4.15500
.260	7.030	.08860	.02030	.03050	.09090	-.00340	.00430	-.00590	-.09400	.51710	4.31500
.260	9.050	.08940	.01880	.03050	.09170	-.00420	.00520	-.00770	-.12700	.51220	4.55600
.260	11.060	.08830	.01620	.03060	.08750	-.00660	.00930	-.00920	-.16100	.51150	5.29400
	GRADIENT	-.00029	.00005	.00005	-.00022	.00010	.00051	-.00091	-.01239	-.00051	-.01718

SSV-ATP ORBITER B2C2D2M1F1V3K2 (ADF152) (16 FEB 73)

REFERENCE DATA

SREF = 9.2816 SQ.FT. XMRP = 43.0396 INCHES
LREF = 21.2628 INCHES YMRP = .0000 INCHES
BREF = 40.8119 INCHES ZMRP = 16.2000 INCHES
SCALE = .0405 SCALE

PARAMETRIC DATA

ALPHA = 10.000 B2FLAP = .000

RUN NO. 152/ 0 RN/L = 1.84 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	CL	CDF	CLM	CN	CAF	CLN	CSL	CY	XCP/L	L/DF
.260	-5.030	.11110	.03150	.03480	.11330	-.00460	-.00240	.00360	.06600	.53030	3.52500
.260	-3.020	.10860	.03110	.03790	.11290	-.00420	-.00150	.00240	.03900	.51710	3.49100
.260	-1.010	.10790	.03190	.03840	.11250	-.00330	.00000	.00060	.01300	.51460	3.38000
.260	.000	.10790	.03260	.03900	.11260	-.00240	.00050	-.00020	.00200	.51310	3.28800
.260	.990	.10800	.03250	.03880	.11270	-.00270	.00110	-.00110	-.01000	.51370	3.31900
.260	2.020	.10720	.03100	.03780	.11150	-.00390	.00240	-.00290	-.03400	.51580	3.45400
.260	3.030	.10670	.02980	.03580	.11250	-.00570	.00310	-.00420	-.06100	.52380	3.67200
.260	7.030	.11020	.02850	.03410	.11360	-.00720	.00390	-.00530	-.09200	.53120	3.85600
.260	9.030	.10740	.02690	.03390	.11050	-.00780	.00410	-.00670	-.12600	.52840	3.99100
.260	11.070	.10500	.02450	.03440	.10740	-.00940	.00330	-.00790	-.16100	.52510	4.28100
	GRADIENT	-.00020	.00001	.00000	-.00020	.00007	.00084	-.00087	-.01203	-.00024	-.00650

SSV-ATP ORBITER B2C2D2M1F1V3K2 (ADF153) (16 FEB 73)

REFERENCE DATA

SREF = 9.2816 SQ.FT. XMRP = 43.0396 INCHES
LREF = 21.2628 INCHES YMRP = .0000 INCHES
BREF = 40.8119 INCHES ZMRP = 16.2000 INCHES
SCALE = .0405 SCALE

PARAMETRIC DATA

ALPHA = 20.000 B2FLAP = .000

RUN NO. 153/ 0 RN/L = 1.84 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	CL	CDF	CLM	CN	CAF	CLN	CSL	CY	XCP/L	L/DF
.260	-5.030	.12600	.03660	.03780	.13100	-.00890	-.01290	.00360	.06300	.53370	3.42400
.260	-3.020	.12270	.03720	.04040	.12800	-.00740	-.00210	.00240	.03700	.52510	3.29600
.260	-1.010	.12230	.03900	.04120	.12820	-.00560	-.00040	.00060	.01300	.52270	3.13500
.260	-.990	.12160	.03900	.04190	.12760	-.00540	.00050	-.00020	.00200	.52130	3.11700
.260	1.000	.12170	.03650	.04130	.12750	-.00590	.00130	-.00100	-.00900	.52160	3.16070
.260	3.030	.12040	.03630	.04110	.12550	-.00750	.00300	-.00290	-.03300	.52030	3.31400
.260	5.010	.12430	.03520	.03810	.12860	-.00990	.00330	-.00420	-.05900	.53260	3.52600
.260	7.040	.12490	.03420	.03630	.12900	-.01100	.00396	-.00500	-.09100	.53640	3.65500
.260	9.030	.12070	.03260	.03640	.12430	-.01100	.00320	-.00600	-.12500	.53410	3.69400
.260	11.080	.11700	.03060	.03720	.12040	-.01160	.00190	-.00710	-.16100	.52730	3.81700
	GRADIENT	-.00037	-.00016	.00011	-.00041	-.00003	.00084	-.00087	-.01151	-.00078	.00431

SSV-ATP ORBITER B2C202H1F1V3R3K2 (ADF154) (16 FEB 73)

REFERENCE DATA

SREF = 5.2816 SQ.FT. XMRP = 43.0596 INCHES
LREF = 21.2628 INCHES YMRP = .0000 INCHES
BREF = 40.8119 INCHES ZMRP = 16.2000 INCHES
SCALE = .0405 SCALE

PARAMETRIC DATA

BETA = .000 B2FLAP = .000
RUDDER = -10.000

RUN NO. 154/ 0 RN/L = 1.84 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CL	CDF	CLM	CN	CAF	CLN	CSL	CY	XCP/L	L/DF
.260	-5.070	-.04380	.01310	-.00200	-.04480	.00920	.01340	-.00860	-.03200	.57010	-3.32200
.260	-2.990	-.03160	.01110	-.00310	-.03210	.00940	.01330	-.00780	-.03100	.61230	-2.84400
.260	-1.010	-.02160	.00920	.00283	-.02180	.00880	.01320	-.00700	-.03100	.70200	-2.34900
.260	.010	-.01500	.00990	.00530	-.01500	.00990	.01310	-.00670	-.03000	.79230	-1.51100
.260	.900	-.01170	.01020	.00790	-.01150	.01040	.01290	-.00640	-.03000	.92080	-1.14300
.260	2.990	.00220	.01060	.01290	.00270	.01050	.01250	-.00560	-.02800	-1.20410	.20800
.260	4.980	.01360	.01040	.01820	.01450	.00920	.01220	-.00490	-.02700	.15380	1.31000
.260	6.020	.02060	.01130	.02060	.02170	.00910	.01210	-.00450	-.02600	.27440	1.81400
.260	8.060	.03490	.01160	.02500	.03620	.00660	.01200	-.00390	-.02500	.37690	2.99600
.260	10.090	.04600	.01360	.02990	.04770	.00530	.01200	-.00340	-.02400	.40340	3.37600
.260	12.010	.05790	.01620	.03520	.06000	.00360	.01200	-.00310	-.02400	.43120	3.55500
.260	14.140	.07610	.01970	.03620	.07360	.00050	.01180	-.00260	-.02300	.46750	3.86800
.260	16.140	.09140	.02430	.03660	.09460	-.00200	.01170	-.00220	-.02200	.48820	3.75200
.260	17.160	.09870	.02570	.03990	.10190	-.00450	.01170	-.00190	-.02200	.49510	3.83300
.260	19.190	.11550	.03230	.04220	.11780	-.00670	.01170	-.00150	-.02100	.50810	3.51000
.260	21.210	.13060	.03900	.04490	.13600	-.01090	.01160	-.00110	-.02100	.51940	3.35000
.260	23.250	.14560	.04740	.04660	.15250	-.01390	.01150	-.00050	-.02100	.52850	3.07300
.260	25.270	.16130	.05560	.04950	.16970	-.01830	.01150	-.00020	-.02100	.53440	2.86800
.260	28.300	.18510	.07113	.05320	.19670	-.02510	.01100	.00040	-.02000	.54290	2.60100
	GRADIENT	.00572	.00001	.00263	.00590	.00006	-.00015	.00036	.00055	-.15159	.54575

SSV-ATP ORBITER B2C2D2M1F1V3R3K2 (ADF155) (16 FEB 73)

REFERENCE DATA

SREF = 9.2816 SQ.FT. XMRP = 43.0596 INCHES
LREF = 21.2628 INCHES YMRP = .0000 INCHES
BREF = 40.8119 INCHES ZMRP = 16.2000 INCHES
SCALE = .0405 SCALE

PARAMETRIC DATA

ALPHA = .000 B2FLAP = .000
RUDDER = -10.000

RUN NO. 155/ 0 RN/L = 1.64 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	CL	CDF	CLM	CN	CAF	CLN	CSL	CY	XCP/L	L/DF
.260	-5.040	-.01370	.00640	.00500	-.01370	.00640	.00970	.00070	.04000	.77710	-2.45500
.260	-3.040	-.01360	.00780	.00550	-.01360	.00780	.01130	-.00220	.01100	.79080	-1.99500
.260	-.960	-.01360	.00690	.00530	-.01360	.00690	.01250	-.00520	-.01600	.78640	-1.74800
.260	.010	-.01370	.01010	.00550	-.01370	.01010	.01310	-.00670	-.02900	.78360	-1.55600
.260	1.010	-.01420	.01070	.00510	-.01420	.01070	.01360	-.00800	-.04200	.79180	-1.31900
.260	3.020	-.01360	.00920	.00420	-.01360	.00920	.01480	-.01100	-.06900	.77450	-1.47600
.260	5.000	-.01250	.00740	.00330	-.01250	.00740	.01600	-.01390	-.09600	.75570	-1.65700
.260	7.030	-.01230	.00540	.00330	-.01230	.00540	.01620	-.01590	-.12200	.75740	-2.25600
.260	9.040	-.01160	.00400	.00410	-.01160	.00400	.01450	-.01690	-.14500	.78790	-2.92400
.260	11.050	-.01210	.00260	.00520	-.01210	.00260	.01260	-.01750	-.16700	.82230	-4.56600
	GRADIENT	.00045	-.00009	-.00028	.00045	-.00009	.00056	-.00145	-.01329	-.00408	.04486

SSV-ATP ORBITER B2C2D2M1F1V3R3K2 (ADF156) (16 FEB 73)

REFERENCE DATA

SREF = 9.2816 SQ.FT. XMRP = 43.0596 INCHES
LREF = 21.2628 INCHES YMRP = .0000 INCHES
BREF = 40.8119 INCHES ZMRP = 16.2000 INCHES
SCALE = .0405 SCALE

PARAMETRIC DATA

ALPHA = 5.000 B2FLAP = .000
RUDDER = -10.000

RUN NO. 156/ 0 RN/L = 1.64 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	CL	CDF	CLM	CN	CAF	CLN	CSL	CY	XCP/L	L/DF
.260	-5.030	.01670	.00850	.01060	.01740	.00700	.00920	.00130	.04100	.26810	1.96900
.260	-3.020	.01600	.00970	.01760	.01680	.00830	.01060	-.00120	.01200	.25110	1.64700
.260	-.980	.01650	.01090	.01620	.01740	.00940	.01160	-.00360	-.01300	.25660	1.92000
.260	.000	.01990	.01060	.01600	.01660	.00940	.01210	-.00480	-.02500	.22570	1.46800
.260	1.000	.01640	.01090	.01740	.01730	.00900	.01270	-.00810	-.03800	.25170	1.56200
.260	3.010	.01720	.00990	.01690	.01800	.00830	.01400	-.00880	-.06500	.26740	1.73400
.260	5.000	.01920	.00800	.01910	.01980	.00830	.01380	-.01110	-.09300	.34680	2.36000
.260	7.030	.02000	.00840	.01420	.02050	.00480	.01980	-.01300	-.12000	.37590	3.11200
.260	9.040	.02100	.00390	.01440	.02120	.00210	.01970	-.01480	-.14700	.36070	3.26000
.260	11.060	.02000	.00260	.01350	.02020	.00100	.01990	-.01540	-.17000	.34560	7.09300
	GRADIENT	.00037	-.00023	-.00037	.00034	-.00027	.00062	-.00124	-.01310	.01490	.04810

SSV-ATP ORBITER B2C2D2M1F1V3R3K2 (ADF157) (16 FEB 73)

REFERENCE DATA

SREF =	5.2818 SQ.FT.	XMRP =	43.0596 INCHES
LREF =	21.2828 INCHES	YMRP =	.0000 INCHES
DREF =	40.8119 INCHES	ZMRP =	16.2000 INCHES
SCALE =	.0405 SCALE		

PARAMETRIC DATA

ALPHA = 10.000 B2FLAP = .000
RUDDER = -10.000

RUN NO. 157/ 0 RN/L = 1.84 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	CL	CDF	CLM	CN	CAF	CLN	CSL	CY	XCP/L	L/DF
.260	-5.040	.04970	.01250	.02710	.05110	.00360	.00880	.00160	.04300	.43970	3.97200
.260	-3.010	.04760	.01300	.02890	.04910	.00440	.01010	-.00040	.01500	.41730	3.66000
.260	-1.020	.04730	.01410	.02940	.04900	.00360	.01120	-.00240	-.01100	.41240	3.34500
.260	-.010	.04840	.01390	.02920	.05010	.00520	.01180	-.00340	-.02300	.41920	3.48200
.260	1.010	.04840	.01360	.02860	.05000	.00490	.01250	-.00450	-.03600	.42340	3.54400
.260	3.020	.05010	.01260	.02710	.05150	.00360	.01370	-.00660	-.06300	.44180	3.97300
.260	5.020	.05200	.01150	.02520	.05320	.00220	.01490	-.00860	-.09100	.46250	4.49600
.260	7.030	.05560	.01060	.02290	.05660	.00080	.01590	-.01040	-.12100	.48970	5.20200
.260	9.090	.05460	.00860	.02310	.05550	-.00100	.01680	-.01230	-.15100	.48460	6.29100
.260	11.070	.05450	.00800	.02410	.05470	-.00350	.01610	-.01350	-.18000	.47530	8.98000
	GRADIENT	.00043	-.00009	-.00031	.00041	-.00016	.00060	-.00105	-.01287	.00421	.05684

SSV-ATP ORBITER B2C2D2M1F1V3R3K2 (ADF158) (16 FEB 73)

REFERENCE DATA

SREF =	5.2818 SQ.FT.	XMRP =	43.0596 INCHES
LREF =	21.2828 INCHES	YMRP =	.0000 INCHES
DREF =	40.8119 INCHES	ZMRP =	16.2000 INCHES
SCALE =	.0405 SCALE		

PARAMETRIC DATA

ALPHA = 15.000 B2FLAP = .000
RUDDER = -10.000

RUN NO. 158/ 0 RN/L = 1.84 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	CL	CDF	CLM	CN	CAF	CLN	CSL	CY	XCP/L	L/DF
.260	.000	.00000	.00020	90.00000	.18490	.00000	.00000	.00000	.00000	.00000	.00000
.260	-5.040	.08850	.02060	.03440	.08900	-.00240	.00910	.00180	.04300	.49660	4.16000
.260	-3.020	.08940	.02170	.03650	.08810	-.00130	.00990	.00030	.01600	.48600	3.93200
.260	-1.020	.08980	.02280	.03720	.08870	.00010	.01090	-.00140	-.00900	.48020	3.86600
.260	-.080	.08410	.02270	.03730	.08710	.00000	.01150	-.00230	-.02200	.48040	3.89100
.260	1.010	.08500	.02280	.03670	.08600	-.00010	.01240	-.00330	-.03400	.48500	3.72900
.260	3.010	.08630	.02080	.03510	.08660	-.00230	.01370	-.00500	-.06100	.49350	4.13800
.260	5.000	.08940	.02040	.03260	.09170	-.00360	.01450	-.00650	-.08800	.50900	4.37500
.260	7.090	.08780	.01840	.03110	.08940	-.00500	.01360	-.00800	-.12000	.51710	4.75600
.260	9.040	.08900	.01550	.03100	.09000	-.00620	.01630	-.00960	-.15200	.51350	5.74100
.260	11.080	.08880	.01260	.03170	.08690	-.01090	.01590	-.01090	-.18500	.50850	7.01400
	GRADIENT	.00058	-.00025	-.00052	.00049	-.00037	.00060	-.00068	-.01294	.00311	.07197

SSV-ATP ORBITER B2C2D2M1F1V3R3K2 (ADF159) (16 FEB 73)

REFERENCE DATA

SREF = 5.2616 SQ.FT. XMRP = 43.0596 INCHES
LREF = 21.2628 INCHES YMRP = .0000 INCHES
BREF = 40.8119 INCHES ZMRP = 16.2000 INCHES
SCALE = .0405 SCALE

PARAMETRIC DATA

ALPHA = 18.000 B2FLAP = .000
RUDDER = -10.000

RUN NO. 159/ 0 RN/L = 1.84 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	CL	CDF	CLM	CN	CAF	CLN	CSL	CY	XCP/L	L/DF
.260	-5.050	.10970	.02690	.03790	.11330	-.00670	.00840	.00210	.04400	.51730	3.79600
.260	-3.020	.10750	.03000	.03960	.11150	-.00500	.00990	.00060	.01500	.50850	3.58300
.260	-1.020	.10650	.02980	.04100	.11050	-.00480	.01060	-.00070	-.00800	.50310	3.56300
.260	.000	.10550	.03030	.04060	.10950	-.00390	.01150	-.00160	-.02700	.50240	3.47500
.260	1.000	.10620	.03000	.04040	.11220	-.00510	.01240	-.00260	-.03300	.50740	3.59800
.260	3.000	.10910	.02940	.03870	.11260	-.00590	.01410	-.00430	-.05900	.51420	3.69900
.260	5.010	.11140	.02760	.03620	.11440	-.00640	.01440	-.00360	-.08500	.52450	4.03000
.260	7.040	.11240	.02660	.03440	.11510	-.00970	.01540	-.00670	-.11600	.53170	4.21400
.260	9.040	.10950	.02270	.03450	.11110	-.01250	.01560	-.00790	-.14900	.52700	4.81900
.260	11.070	.10810	.01980	.03560	.10980	-.01510	.01480	-.00930	-.18500	.52150	5.49000
	GRADIENT	.00032	-.00008	-.00019	.00028	-.00015	.00072	-.00086	-.01230	.00106	.01902

SSV-ATP ORBITER B2C2D2M1F1V3R3K2 (ADF160) (16 FEB 73)

REFERENCE DATA

SREF = 5.2616 SQ.FT. XMRP = 43.0596 INCHES
LREF = 21.2628 INCHES YMRP = .0000 INCHES
BREF = 40.8119 INCHES ZMRP = 16.2000 INCHES
SCALE = .0405 SCALE

PARAMETRIC DATA

ALPHA = 20.000 B2FLAP = .000
RUDDER = -10.000

RUN NO. 160/ 0 RN/L = 1.84 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	CL	CDF	CLM	CN	CAF	CLN	CSL	CY	XCP/L	L/DF
.260	-5.020	.12170	.03490	.04030	.12600	-.00970	.00800	.00240	.04300	.52320	3.54000
.260	-3.010	.12110	.03600	.04220	.12610	-.00820	.00970	.00130	.01400	.51730	3.36600
.260	-.990	.12010	.03590	.04320	.12510	-.00770	.01100	-.00030	-.00900	.51330	3.33800
.260	.010	.12040	.03560	.04330	.12530	-.00810	.01160	-.00120	-.02100	.51320	3.37700
.260	1.020	.12080	.03340	.04260	.12540	-.00840	.01290	-.00210	-.03300	.51960	3.40700
.260	3.040	.12340	.03490	.04130	.12790	-.00980	.01460	-.00370	-.05800	.52130	3.55000
.260	5.030	.12490	.03380	.03950	.12850	-.01130	.01430	-.00510	-.08200	.52810	3.68200
.260	7.080	.12500	.03250	.03740	.12840	-.01280	.01490	-.00600	-.11400	.53490	3.86300
.260	9.080	.12320	.02900	.03730	.12570	-.01530	.01450	-.00700	-.14600	.53230	4.24000
.260	11.090	.11960	.02590	.03630	.12120	-.01700	.01290	-.00810	-.18200	.52470	4.61700
	GRADIENT	.00037	-.00019	-.00013	.00028	-.00027	.00082	-.00083	-.01190	.00071	.02763

REPRODUCIBILITY OF THE ORIGINAL PAGE IS POOR.

SSV-ATP ORBITER B2C202M1F1V3R3K2 (ADF161) (16 FEB 73)

REFERENCE DATA

SREF = 9.2815 SQ.FT. XMRP = 43.0596 INCHES
LREF = 21.2828 INCHES YMRP = .0000 INCHES
BREF = 40.8119 INCHES ZMRP = 16.2000 INCHES
SCALE = .0405 SCALE

PARAMETRIC DATA

BETA = .000 B2FLAP = .000
RUDDER = -20.000

RUN NO. 161/ 0 RN/L = 1.84 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CL	CDF	CLM	CN	CAF	CLN	CSL	CY	XCP/L	L/DF
.260	-5.040	-.04570	.02180	-.00160	-.04740	.01760	.02220	-.01360	-.05300	.63590	-2.09600
.260	-3.020	-.03510	.01960	.00440	-.03610	.01790	.02280	-.01290	-.05300	.69630	-1.77500
.260	-1.030	-.02460	.01930	.00990	-.02520	.01880	.02500	-.01200	-.05200	.80650	-1.28600
.260	.000	-.01950	.01950	.01290	-.01950	.01950	.02500	-.01150	-.05100	.91120	-1.00300
.260	1.020	-.01390	.01870	.01540	-.01350	.01890	.02330	-.01100	-.05200	1.10150	-.74200
.260	3.020	-.00130	.01770	.02070	-.00040	.01770	.02360	-.01010	-.05200	3.27670	-.07800
.260	5.040	.01020	.01780	.02550	.01170	.01680	.02370	-.00910	-.05100	-.20890	.57500
.260	6.070	.01590	.01880	.02800	.01780	.01700	.02360	-.00850	-.05000	.02650	.84900
.260	8.050	.02790	.01970	.03290	.03040	.01560	.02390	-.00770	-.05000	.22170	1.41400
.260	10.080	.04160	.02060	.03710	.04460	.01300	.02360	-.00660	-.04900	.32010	2.02000
.260	12.120	.05570	.02160	.04060	.05900	.00960	.02390	-.00570	-.04800	.37630	2.54500
.260	14.140	.07000	.02700	.04410	.07450	.00910	.02390	-.00480	-.04700	.41570	2.58400
.260	16.070	.08220	.03120	.04660	.08770	.00720	.02400	-.00390	-.04700	.43840	2.62800
.260	17.170	.09260	.03360	.04830	.09840	.00470	.02390	-.00330	-.04700	.45580	2.75300
.260	19.190	.10740	.03640	.05090	.11410	.00090	.02400	-.00230	-.04600	.47330	2.79500
.260	21.210	.12360	.04480	.05300	.13160	-.00300	.02410	-.00130	-.04500	.49040	2.76100
.260	23.260	.13930	.05230	.05490	.14860	-.00690	.02420	-.00050	-.04400	.50370	2.66000
.260	25.290	.15520	.06120	.05660	.16650	-.01090	.02440	.00020	-.04300	.51480	2.53300
.260	28.320	.17830	.07850	.06020	.19320	-.01720	.02480	.00120	-.04100	.52650	2.32600
	GRADIENT	.00557	-.00034	.00270	.00589	-.00002	.00013	.00047	.00015	.39765	.27947

REPRODUCIBILITY OF THE ORIGINAL PAGE IS POOR.

SSV-ATP ORBITER B2C2D2M1F1V3R3K2 (ADF162) (16 FEB 73)

REFERENCE DATA

SREF = 9.2616 SQ.FT. XMRP = 43.0596 INCHES
LREF = 21.2626 INCHES YMRP = .0000 INCHES
BREF = 40.8119 INCHES ZMRP = 16.2000 INCHES
SCALE = .0403 SCALE

PARAMETRIC DATA

ALPHA = .000 B2FLAP = .000
RUDDER = -20.000

RUN NO. 162/ 0 RN/L = 1.84 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	CL	CDF	CLM	CN	CAF	CLN	CSL	CY	XCP/L	L/DF
.260	-5.020	-.01910	.01650	.01150	-.01910	.01650	.02040	-.00460	.01700	.88900	-1.19500
.260	-3.010	-.02010	.01810	.01260	-.02010	.01810	.02180	-.00750	-.01100	.89730	-1.11100
.260	-.980	-.02040	.01940	.01330	-.02040	.01940	.02250	-.01010	-.03700	.90730	-1.05200
.260	-.020	-.02020	.01860	.01300	-.02020	.01860	.02300	-.01150	-.05000	.90420	-1.07900
.260	1.010	-.01910	.01690	.01260	-.01910	.01690	.02380	-.01310	-.08400	.91140	-1.01000
.260	3.030	-.01980	.01760	.01160	-.01960	.01760	.02330	-.01620	-.09200	.88330	-1.11700
.260	5.030	-.01840	.01670	.01110	-.01840	.01670	.02690	-.01900	-.12000	.88660	-1.10000
.260	7.040	-.01660	.01450	.01000	-.01660	.01450	.02720	-.02140	-.14600	.88770	-1.16400
.260	9.060	-.01570	.01240	.01000	-.01570	.01240	.02390	-.02140	-.16500	.90290	-1.26600
.260	11.070	-.01600	.00940	.01150	-.01600	.00940	.01960	-.02060	-.18200	.93560	-1.70400
	GRADIENT	.00014	-.00019	-.00018	.00014	-.00010	.00062	-.00145	-.01545	-.00169	.00119

SSV-ATP ORBITER B2C2D2M1F1V3R3K2 (ADF163) (16 FEB 73)

REFERENCE DATA

SREF = 9.2616 SQ.FT. XMRP = 43.0596 INCHES
LREF = 21.2626 INCHES YMRP = .0000 INCHES
BREF = 40.8119 INCHES ZMRP = 16.2000 INCHES
SCALE = .0403 SCALE

PARAMETRIC DATA

ALPHA = 5.000 B2FLAP = .000
RUDDER = -20.000

RUN NO. 163/ 0 RN/L = 1.84 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	CL	CDF	CLM	CN	CAF	CLN	CSL	CY	XCP/L	L/DF
.260	-5.010	.01040	.01340	.02430	.01170	.01450	.02080	-.00310	.01600	-.17060	.07240
.260	-3.000	.00810	.01660	.02490	.00980	.01600	.02210	-.00970	-.01100	-.37330	.46500
.260	-.980	.00870	.01600	.02570	.01020	.01720	.02290	-.00780	-.03600	-.34130	.46200
.260	.000	.00980	.01840	.02550	.01140	.01740	.02350	-.00910	-.04900	-.23490	.33300
.260	1.040	.00920	.01730	.02490	.01080	.01650	.02420	-.01040	-.06300	-.27410	.32900
.260	3.040	.01240	.01690	.02350	.01380	.01570	.02410	-.01310	-.09100	-.02200	.73400
.260	5.010	.01450	.01590	.02240	.01580	.01450	.02600	-.01970	-.12000	.00130	.91300
.260	7.040	.01560	.01260	.02110	.01660	.01140	.02640	-.01780	-.14700	.15480	1.22900
.260	9.060	.01650	.01060	.02070	.01740	.00930	.02630	-.01660	-.17000	.17950	1.32200
.260	11.070	.01680	.00870	.02110	.01790	.00720	.02210	-.01640	-.18600	.17930	1.92900
	GRADIENT	.00066	-.00002	-.00029	.00064	-.00004	.00066	-.00123	-.01327	.05360	.03940

REPRODUCIBILITY OF THE ORIGINAL PAGE IS POOR.

SSV-ATP ORBITER B2C202M1F1V3R3K2 (ADF164) (16 FEB 73)

REFERENCE DATA

SREF = 9.2816 SQ.FT. XMRP = 43.0396 INCHES
LREF = 21.2626 INCHES YMRP = .0000 INCHES
BREF = 40.8119 INCHES ZMRP = 16.2000 INCHES
SCALE = .0405 SCALE

PARAMETRIC DATA

ALPHA = 10.000 B2FLAP = .000
RUDDER = -20.000

RUN NO. 164/ 0 RN/L = 1.84 GRADIENT INTERVAL = -3.00/ 3.00

MACH	BETA	CL	CDF	CLM	CN	CAF	CLN	CSL	CY	XCP/L	L/DF
.260	-3.000	.04440	.01810	.03450	.04690	.01000	.02070	-.00160	.01800	.35900	2.44900
.260	-3.000	.04260	.01940	.03600	.04530	.01160	.02160	-.00360	-.00800	.33520	2.18900
.260	-.980	.04220	.02060	.03700	.04510	.01260	.02280	-.00350	-.03400	.32590	2.05000
.260	.000	.04230	.02060	.03670	.04530	.01260	.02340	-.00360	-.04700	.32950	2.05600
.260	1.020	.04340	.02040	.03650	.04650	.01250	.02420	-.00760	-.06100	.33600	2.11800
.260	3.030	.04500	.01940	.03420	.04770	.01130	.02580	-.00990	-.08600	.36640	2.31100
.260	5.030	.04770	.01830	.03250	.05020	.00970	.02780	-.01210	-.11600	.39320	2.59600
.260	7.090	.04960	.01670	.03120	.05190	.00770	.02690	-.01400	-.14600	.41160	2.96200
.260	9.060	.04940	.01420	.03000	.05110	.00550	.02720	-.01510	-.17300	.41720	3.47200
.260	11.060	.05140	.01160	.03010	.05270	.00240	.02640	-.01630	-.20500	.42390	4.40600
	GRADIENT	.00007	.00020	.00002	.00011	.00019	.00062	-.00102	-.01310	.00095	-.02029

SSV-ATP ORBITER B2C202M1F1V3R3K2 (ADF165) (16 FEB 73)

REFERENCE DATA

SREF = 9.2816 SQ.FT. XMRP = 43.0396 INCHES
LREF = 21.2626 INCHES YMRP = .0000 INCHES
BREF = 40.8119 INCHES ZMRP = 16.2000 INCHES
SCALE = .0405 SCALE

PARAMETRIC DATA

ALPHA = 15.000 B2FLAP = .000
RUDDER = -20.000

RUN NO. 165/ 0 RN/L = 1.84 GRADIENT INTERVAL = -3.00/ 3.00

MACH	BETA	CL	CDF	CLM	CN	CAF	CLN	CSL	CY	XCP/L	L/DF
.260	-3.020	.06140	.02650	.04260	.06550	.00430	.02100	-.00020	.01900	.43260	3.06600
.260	-3.000	.07870	.02730	.04470	.06310	.00360	.02200	-.00170	-.00700	.43700	2.87400
.260	-.990	.07790	.02870	.04510	.06260	.00740	.02260	-.00330	-.03270	.43420	2.70900
.260	.010	.07790	.02990	.04480	.06300	.00950	.02340	-.00420	-.04500	.43630	2.60100
.260	1.000	.07910	.02910	.04410	.06400	.00740	.02410	-.00510	-.03600	.44210	2.71300
.260	3.030	.08170	.02760	.04190	.06600	.00320	.02560	-.00690	-.06400	.45710	2.95900
.260	5.020	.06350	.02980	.04090	.06710	.00320	.02760	-.00860	-.11300	.46600	3.21600
.260	7.090	.06340	.02490	.03830	.06900	.00170	.02660	-.01020	-.14300	.47940	3.42900
.260	9.050	.06390	.02190	.03770	.06870	-.00120	.02600	-.01150	-.17300	.48160	3.92000
.260	11.040	.06330	.01980	.03630	.06590	-.00260	.02700	-.01270	-.20600	.47230	4.23100
	GRADIENT	.00021	.00008	-.00047	.00049	-.00009	.00063	-.00087	-.01270	.00340	.01841

REPRODUCIBILITY OF THE ORIGINAL PAGE IS POOR.

SSV-ATP ORBITER B2C202M1F1V3R3K2 (ADF166) (16 FEB 73)

REFERENCE DATA

SREF =	5.2616 SQ.FT.	XMRP =	43.0336 INCHES
LREF =	21.2626 INCHES	YMRP =	.0000 INCHES
BREF =	40.8119 INCHES	ZMRP =	16.2000 INCHES
SCALE =	.0405 SCALE		

PARAMETRIC DATA

ALPHA = 18.000 BEFLAP = .000
RUDDER = -20.000

RUN NO. 166/ 0 RN/L = 1.84 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	CL	CDF	CLM	CN	CAF	CLN	CSL	CY	XCP/L	L/DF
.260	-5.010	.10450	.03590	.04660	.11050	.00150	.02130	.00060	.02000	.46230	2.90700
.260	-3.010	.10040	.03650	.04910	.10860	.00330	.02290	-.00050	-.00800	.46790	2.74600
.260	-.990	.10020	.03460	.05030	.10660	.00340	.02360	-.00200	-.05300	.46330	2.73700
.260	.020	.09960	.03720	.05030	.10640	.00410	.02450	-.00260	-.04400	.46300	2.66300
.260	1.000	.10200	.03660	.04940	.10640	.00320	.02510	-.00370	-.03600	.46960	2.76400
.260	3.030	.10390	.03560	.04670	.10990	.00150	.02630	-.00550	-.06200	.48110	2.90600
.260	5.020	.10370	.03410	.04390	.11110	-.00050	.02790	-.00700	-.10900	.49340	3.09500
.260	7.040	.10700	.03130	.04210	.11140	-.00360	.02890	-.00830	-.14200	.50020	3.41300
.260	9.030	.10570	.02790	.04140	.10910	-.00640	.02870	-.00960	-.17300	.49960	3.78200
.260	11.060	.10250	.02410	.04160	.10490	-.00900	.02740	-.01070	-.20600	.49510	4.24100
	GRADIENT	.00095	-.00012	-.00040	.00049	-.00028	.00057	-.00065	-.01216	.00228	.02519

SSV-ATP ORBITER B2CR02M1F1V3R3K2 (ADF167) (16 FEB 73)

REFERENCE DATA

SREF =	5.2616 SQ.FT.	XMRP =	43.0336 INCHES
LREF =	21.2626 INCHES	YMRP =	.0000 INCHES
BREF =	40.8119 INCHES	ZMRP =	16.2000 INCHES
SCALE =	.0405 SCALE		

PARAMETRIC DATA

ALPHA = 20.000 BEFLAP = .000
RUDDER = -20.000

RUN NO. 167/ 0 RN/L = 1.84 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	CL	CDF	CLM	CN	CAF	CLN	CSL	CY	XCP/L	L/DF
.260	-5.000	.11750	.04090	.04840	.12420	-.00270	.02130	.00140	.01600	.49350	2.91600
.260	-3.000	.11300	.04010	.05170	.11990	-.00130	.02310	.00040	-.01100	.47930	2.81200
.260	-.990	.11330	.04190	.05290	.12100	.00010	.02410	-.00110	-.03400	.47790	2.70600
.260	.010	.11370	.04230	.05250	.12130	.00040	.02460	-.00190	-.04500	.47870	2.66400
.260	1.020	.11450	.04180	.05210	.12170	-.00010	.02510	-.00260	-.05800	.48090	2.72300
.260	3.010	.11960	.04060	.04850	.12250	-.00170	.02600	-.00430	-.07900	.49060	2.84300
.260	5.020	.11960	.03920	.04640	.12570	-.00440	.02700	-.00600	-.10900	.50390	3.04700
.260	7.030	.12120	.03710	.04400	.12650	-.00690	.02830	-.00730	-.13900	.51220	3.25800
.260	9.060	.11910	.03250	.04320	.12300	-.01050	.02850	-.00810	-.17400	.51060	3.66000
.260	11.100	.11610	.02890	.04320	.11910	-.01250	.02590	-.00690	-.20700	.50650	3.95900
	GRADIENT	-.00014	.00014	.00014	-.00009	.00019	.00038	-.00075	-.01174	-.00059	-.01368

REPRODUCIBILITY OF THE ORIGINAL PAGE IS POOR

SSV-ATP ORBITER B2G2C2D2M1F1..2V3K2 (ADF166) (16 FEB 73)

REFERENCE DATA

SREF = 9.2816 SQ.FT. XMRP = 43.0596 INCHES
LREF = 21.2628 INCHES YMRP = .0000 INCHES
BREF = 40.8119 INCHES ZMRP = 16.2000 INCHES
SCALE = .0405 SCALE

PARAMETRIC DATA

BETA = .000 B2FLAP = .000
RUDDER = .000 STRAKE = 5.000

RUN NO. 166/ 0 RN/L = 1.64 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CL	CDF	CLM	CN	CAF	CLN	CSL	CY	XCP/L	L/DF
.260	-5.260	-.24040	.03340	.00190	-.24240	.01110	.00030	-.00020	-.00600	.65310	-7.19200
.260	-3.170	-.13750	.02500	.00030	-.13670	.01740	.00020	-.00050	-.00500	.65090	-5.48200
.260	-1.080	-.03930	.02110	.00000	-.03970	.02050	.00000	-.00050	-.00500	.64940	-1.86300
.260	-.010	.00670	.02000	-.00030	.00670	.02000	.00000	-.00050	-.00500	.67280	.33600
.260	1.030	.05450	.02060	-.00130	.05460	.01960	.00000	-.00050	-.00100	.65970	2.65000
.260	3.140	.14670	.02310	-.00390	.14980	.01490	.00020	-.00040	.00000	.66050	6.42900
.260	5.250	.24340	.02970	-.00740	.24510	.00750	.00040	-.00050	-.00100	.66200	8.17400
.260	6.330	.29100	.03360	-.00830	.29300	.00150	.00050	-.00060	.00000	.66120	8.59600
.260	8.460	.38930	.04600	-.01000	.39160	-.01170	.00060	-.00060	.00000	.66010	8.45100
.260	10.580	.49290	.06340	-.01340	.49620	-.02810	-.00120	-.00040	.00400	.66070	7.76900
.260	12.750	.59670	.09000	-.01660	.60190	-.04360	-.00260	-.00070	.00800	.66100	6.62600
.260	14.830	.69460	.14010	-.02030	.70730	-.04240	.00010	-.00280	.00800	.66130	4.95600
.260	16.940	.78780	.18780	-.01710	.79920	-.04410	.00060	-.00370	.01000	.65860	4.08800
.260	19.000	.81150	.21470	-.01600	.83810	-.04650	.00170	-.00350	.01000	.65850	3.77800
.260	20.130	.90900	.27850	-.02710	.94660	-.05320	.00240	-.00300	.01300	.66130	3.28700
.260	22.260	.99100	.34430	-.03170	1.04750	-.05897	.00340	-.00550	.01900	.66200	2.87800
.260	24.400	1.07250	.42150	-.03160	1.13060	-.05940	.00450	-.01050	.03200	.66090	2.54500
.260	26.490	1.07370	.47360	-.01160	1.17240	-.05420	.00850	-.01150	.03100	.65350	2.26600
.260	28.560	1.12010	.57030	.00390	1.23570	-.05670	.01430	-.00490	.02900	.64880	1.96400
	GRADIENT	.04330	-.00330	-.00366	.04566	-.00039	-.00000	-.00001	.00081	.00183	1.91333

REPRODUCIBILITY OF THE ORIGINAL PAGE IS POOR

SSV-ATP ORBITER B202C2D2M1F1W2V3K2 (ADF169) (16 FEB 73)

REFERENCE DATA

SREF = 9.2816 SQ.FT. XMRP = 43.0596 INCHES
LREF = 21.2626 INCHES YMRP = .0000 INCHES
BREF = 40.8119 INCHES ZMRP = 16.2000 INCHES
SCALE = .0405 SCALE

PARAMETRIC DAT..

BETA = 5.000 B2FLAP = .000
STRAKE = 5.000

RUN NO. 169/ 0 RN/L = 1.84 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CL	CDF	CLM	CN	CAF	CLN	CSL	CY	XCP/L	L/DF
.260	-5.270	-.23350	.03260	.00150	-.23750	.01060	.00470	.00260	-.08600	.65260	-7.21100
.260	-3.140	-.13600	.02360	-.00030	-.13710	.01610	.00480	.00110	-.08600	.64900	-5.76000
.260	-1.030	-.03750	.01690	-.00160	-.03790	.01620	.00460	-.00070	-.08300	.63090	-1.98200
.260	.000	.00000	.01620	-.00270	.00000	.01620	.00520	-.00140	-.08300	.62970	.32900
.260	1.070	.03490	.01780	-.00370	.03520	.01660	.00550	-.00210	-.08300	.67650	3.07600
.260	3.190	.14790	.02050	-.00650	.14880	.01230	.00640	-.00350	-.08300	.66750	7.20100
.260	5.290	.24180	.02670	-.00850	.24320	.00420	.00710	-.00500	-.08100	.66390	9.04400
.260	6.370	.29070	.03150	-.00960	.29240	-.00090	.00740	-.00570	-.08100	.66350	9.22500
.260	8.470	.38930	.04390	-.01210	.39150	-.01390	.00800	-.00760	-.07900	.66220	8.86700
.260	10.560	.48960	.06320	-.01630	.49910	-.02660	.00740	-.00930	-.07300	.66290	7.69300
.260	12.720	.60210	.08980	-.02000	.60710	-.04480	.00570	-.01150	-.06500	.66300	6.69100
.260	14.870	.69600	.11870	-.02030	.71020	-.04300	.00910	-.01390	-.06400	.66140	5.82900
.260	16.980	.77900	.16970	-.02070	.80050	-.04610	.01150	-.01260	-.06300	.66020	4.10400
.260	18.020	.81980	.21030	-.02120	.84720	-.04600	.01150	-.01110	-.06100	.65990	3.75530
.260	20.160	.92170	.26310	-.02790	.96260	-.05200	.01160	-.00550	-.06200	.66130	3.25900
.260	22.290	1.00090	.34660	-.03000	1.03640	-.03660	.01190	-.00210	-.06200	.66120	2.88800
.260	24.360	1.04270	.40640	-.01660	1.11630	-.03640	.00510	.00340	-.06100	.63360	2.55300
.260	26.490	1.08600	.47130	-.01220	1.19290	-.06790	.00320	.01650	-.06500	.65400	2.32900
.260	28.570	1.14970	.56300	.00110	1.27760	-.07770	-.00360	.03090	-.11900	.64960	2.04200
	GRADIENT	.04902	-.00050	-.00098	.04834	-.00061	.00028	-.00072	.00049	.00474	2.09946

REPRODUCIBILITY OF THE ORIGINAL PAGE IS POOR

SSV-ATP ORBITER B2G2C2D2M1F1W2V3K2 (ADF170) (16 FEB 73)

REFERENCE DATA

SREF = 5.2616 SQ.FT. XMRP = 45.0596 INCHES
LREF = 21.2826 INCHES YMRP = .0000 INCHES
BREF = 40.8119 INCHES ZMRP = 16.2000 INCHES
SCALE = .0405 SCALE

PARAMETRIC DATA

BETA = .000 B2FLAP = .000
STRAKE = 6.000

RUN NO. 170/ 0 RN/L = 1.84 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CL	CDF	CLM	CN	CAF	CLN	CSL	CY	XCP/L	L/DF
.200	-5.260	-.23740	.03310	.01420	-.23950	.01120	.00030	-.00040	-.00300	.67350	-7.16000
.200	-3.150	-.13740	.02550	.00800	-.13860	.01790	.00000	-.00070	-.00200	.67290	-5.37100
.200	-1.030	-.03900	.02170	.00590	-.03940	.02100	.00010	-.00060	-.00200	.68980	-1.80000
.200	.010	.00730	.02100	.00260	.00730	.02100	.00000	-.00040	-.00100	.50940	.35000
.200	1.070	.03950	.02050	.00090	.03990	.01940	.00000	-.00040	.00000	.64350	2.71100
.200	3.180	.14990	.02340	-.00260	.15100	.01500	.00000	-.00040	.00000	.65700	6.40100
.200	5.290	.24390	.02990	-.00520	.24560	.00730	.00000	-.00050	.00100	.65850	8.13700
.200	6.360	.29060	.03430	-.00650	.29260	.00180	.00000	-.00070	.00100	.65870	8.47400
.200	8.490	.38860	.04360	-.00860	.39110	-.01200	.00040	-.00070	.00000	.65870	8.92100
.200	10.600	.48420	.06420	-.01300	.49760	-.02770	-.00050	-.00040	.00400	.66050	7.69300
.200	12.720	.58740	.09190	-.01710	.60290	-.04230	-.00250	-.00040	.00800	.66120	6.52500
.200	14.830	.68930	.14130	-.02250	.70830	-.04130	-.00010	-.00250	.00900	.66250	4.91900
.200	16.960	.78250	.19210	-.02660	.80430	-.04440	.00020	-.00330	.01000	.66300	4.07100
.200	18.040	.82750	.22290	-.03200	.85580	-.04430	.00050	-.00220	.00600	.66480	3.71200
.200	20.150	.90260	.28240	-.02970	.94470	-.04580	.00000	-.00130	.00600	.66240	3.19600
.200	22.240	.96910	.34330	-.02660	1.02700	-.04900	.00030	-.00240	.00700	.66100	2.82200
.200	24.340	1.03790	.41420	-.02650	1.11600	-.05030	.00150	-.00330	.00900	.66010	2.50400
.200	26.450	1.07860	.47440	-.01940	1.17440	-.05430	.00100	-.00390	.01100	.65650	2.28600
.200	29.480	1.08310	.53580	.01550	1.18910	-.05680	.00100	-.00600	.02100	.64480	1.99500
	GRADIENT	.04539	-.00056	-.00165	.04571	-.00049	-.00000	.00005	.00036	-.00441	1.88835

REPRODUCIBILITY OF THE ORIGINAL PAGE IS POOR

SSV-ATP ORBITER B2B2C2D2M1F1M2V3K2 (ADF171) (16 FEB 73)

REFERENCE DATA

SREF = 8.2816 SQ.FT. XMRP = 43.0596 INCHES
LREF = 21.2628 INCHES YMRP = .0000 INCHES
BREF = 40.8119 INCHES ZMRP = 16.2000 INCHES
SCALE = .0405 SCALE

PARAMETRIC DATA

BETA = 5.000 B2FLAP = .000
STRAKE = 0.000

RUN NO. 171/ 0 RN/L = 1.84 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CL	CDF	CLM	CN	CAF	CLN	CBL	CY	XCP/L	L/DF
.200	-5.200	-.23150	.02630	.00740	-.23310	.00690	.00700	.00510	-.08300	.66260	-8.16900
.200	-3.120	-.13030	.01990	.00240	-.13120	.01280	.00640	.00150	-.08300	.65740	-6.51600
.200	-1.020	-.03550	.01660	-.00060	-.03570	.01520	.00620	-.00010	-.08200	.64090	-2.24100
.200	.090	.01200	.01610	-.00160	.01200	.01610	.00640	-.00090	-.08200	.71120	.74600
.200	1.060	.09770	.01600	-.00530	.09800	.01490	.00670	-.00170	-.08200	.67270	3.59300
.200	3.160	.14870	.01910	-.00640	.14950	.01090	.00700	-.00290	-.08200	.66690	7.75100
.200	5.200	.24500	.02520	-.00660	.24630	.00270	.00750	-.00450	-.08100	.66390	9.62400
.200	6.370	.29310	.03040	-.00920	.29470	-.00220	.00780	-.00540	-.08000	.66230	9.63300
.200	8.480	.39110	.04360	-.01180	.39350	-.01420	.00640	-.00710	-.07900	.66190	8.92800
.200	10.600	.49060	.06150	-.01720	.50260	-.03140	.00600	-.00870	-.07600	.66360	8.11600
.200	12.720	.60320	.09050	-.02130	.61090	-.04490	.00560	-.01040	-.06800	.66360	6.66200
.200	14.870	.70340	.14070	-.02440	.71980	-.04450	.00910	-.01210	-.06900	.66350	4.99800
.200	16.980	.77610	.19210	-.02070	.78640	-.04290	.01120	-.01240	-.07000	.66030	4.03600
.200	19.020	.81670	.21990	-.02220	.84470	-.04360	.01150	-.01200	-.07000	.66030	3.71300
.200	20.140	.80790	.26030	-.02540	.84880	-.04940	.01130	-.00700	-.07600	.66060	3.23800
.200	22.250	.87610	.34220	-.02410	1.03300	-.05290	.00810	-.00330	-.06400	.65920	2.65100
.200	24.340	1.02230	.40200	-.01620	1.08710	-.05510	-.00060	.00150	-.06600	.65580	2.54200
.200	26.270	1.04660	.45320	-.01040	1.13940	-.05700	.00040	.00080	-.06800	.65360	2.30600
.200	28.490	1.08610	.52200	-.00780	1.21410	-.06500	.00130	.00840	-.06400	.65280	2.10300
	GRADIENT	.04442	-.00011	-.00138	.04469	-.00028	.00011	-.00071	.00014	.00293	2.32279

REPRODUCIBILITY OF THE ORIGINAL PAGE IS POOR.

SSV-ATP ORBITER B2Q2CE02M1F1W2V3K2 (ADF172) (16 FEB 73)

REFERENCE DATA

SREF =	5.2816 SQ.FT.	XMRP =	43.0596 INCHES		
LREF =	21.2626 INCHES	YMRP =	.0000 INCHES		
BREF =	40.8119 INCHES	ZMRP =	16.2000 INCHES		
SCALE =	.0405 SCALE				

PARAMETRIC DATA

BETA =	.000	B2FLAP =	.000
STRAKE =	7.000		

RUN NO. 172/ 0 R1/L = 1.84 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CL	CDF	CLM	CN	CAF	CLN	CSL	CY	XCP/L	L/DF
.260	-5.250	-.23720	.02960	.01340	-.23690	.00780	.00110	-.00050	-.00400	.67230	-7.99200
.260	-3.140	-.13660	.02240	.00770	-.13780	.01490	.00110	-.00040	-.00300	.67220	-6.08400
.260	-1.040	-.03690	.01810	.00430	-.03930	.01730	.00090	-.00030	-.00200	.69360	-2.19200
.260	.000	.00960	.01740	.00300	.00980	.01740	.00090	-.00020	-.00200	.52740	.56200
.260	1.050	.05990	.01750	.00150	.05820	.01640	.00090	-.00010	-.00200	.63930	3.19400
.260	3.160	.14990	.02030	-.00090	.15060	.01200	.00070	.00000	.00000	.65250	7.37000
.260	5.270	.24540	.02760	-.00360	.24690	.00510	.00070	.00000	.00000	.65580	8.81000
.260	6.260	.29380	.03270	-.00500	.29560	.00040	.00080	.00000	.00000	.65670	8.96900
.260	8.480	.39220	.04500	-.00690	.39460	-.01310	.00070	-.00010	.00100	.65690	8.69700
.260	10.360	.49180	.06320	-.00760	.49510	-.02810	-.00050	.00010	.00400	.65620	7.78200
.260	12.720	.61440	.09350	-.02060	.61990	-.04400	-.00240	.00020	.00600	.66320	6.56700
.260	14.670	.72180	.14680	-.02650	.73530	-.04330	.00090	-.00060	.00600	.66520	4.91300
.260	16.940	.79680	.19760	-.02660	.81990	-.04320	.00070	-.00130	.00600	.66290	4.03200
.260	18.010	.83990	.22360	-.02560	.86660	-.04410	.00070	-.00050	.00600	.66160	3.70500
.260	20.130	.91560	.28390	-.02040	.95760	-.04870	.00045	.00030	.00500	.65840	3.22500
.260	22.250	.98340	.34500	-.01670	1.04080	-.05310	.00070	-.00120	.00900	.65710	2.85000
.260	24.390	1.04170	.41240	-.01660	1.11910	-.05360	.00310	-.00330	.01900	.65580	2.52500
.260	26.440	1.08270	.47410	-.00410	1.16060	-.05750	.00360	-.00200	.01900	.65140	2.28300
.260	29.520	1.09020	.55060	.02990	1.22010	-.05780	-.00010	-.00580	.02000	.64030	1.97900
	GRADIENT	.04549	-.00055	-.00136	.04560	-.00048	-.00006	.00007	.00043	-.00536	2.17745

SSV-ATP ORBITER B2B2C2D2M1F1W2V3H2 (ADF173) (16 FEB 73)

REFERENCE DATA

SREF = 8.2616 SQ.FT. XMRP = 43.0996 INCHES
LREF = 21.2628 INCHES YMRP = .0000 INCHES
BREF = 40.8119 INCHES ZMRP = 16.2000 INCHES
SCALE = .0403 SCALE

PARAMETRIC DATA

BETA = 5.000 B2FLAP = .000
STRAKE = 7.000

RUN NO. 175/ 0 RN/L = 1.84 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CL	CDF	CLM	CN	CAF	CLN	CSL	CY	XCP/L	L/DF
.260	-5.230	-.23060	.02630	.01140	-.23230	.00900	.00700	.00270	-.08300	.66950	-8.75700
.260	-3.110	-.13110	.01900	.00570	-.13200	.01190	.00670	.00130	-.08200	.66720	-6.88400
.260	-1.040	-.05620	.01570	.00330	-.05650	.01500	.00660	-.00020	-.08200	.66360	-2.31000
.260	.020	.01000	.01910	.00240	.01000	.01510	.00660	-.00110	-.08200	.65490	.66100
.260	.980	.03240	.01640	.00120	.03270	.01350	.00700	-.00170	-.08400	.64030	3.18600
.260	3.190	.15090	.02060	-.00120	.15120	.01230	.00710	-.00300	-.08200	.63330	7.26800
.260	5.280	.24410	.02710	-.00300	.24560	.00450	.00750	-.00410	-.08000	.63490	8.99300
.260	6.360	.29180	.03160	-.00410	.29330	-.00080	.00780	-.00480	-.08100	.63550	9.22600
.260	8.460	.38120	.04410	-.00670	.38350	-.01360	.00840	-.00630	-.07800	.63670	8.63800
.260	10.500	.48280	.06530	-.00830	.48640	-.02840	.00790	-.00760	-.07600	.63500	7.34800
.260	12.750	.60890	.09380	-.01780	.61480	-.04070	.00440	-.01030	-.08300	.66140	6.34300
.260	14.860	.70360	.14490	-.02070	.71920	-.04110	.00760	-.01130	-.08700	.66140	4.86900
.260	16.980	.79810	.19920	-.02290	.81960	-.04200	.00940	-.01050	-.08600	.66100	3.99400
.260	18.060	.84790	.22960	-.02390	.87700	-.04420	.01030	-.00860	-.08900	.66170	3.68800
.260	20.170	.93010	.29140	-.02620	.97350	-.04710	.01110	-.00820	-.07000	.66140	3.19100
.260	22.270	.99860	.35350	-.02800	1.05620	-.05060	.01130	-.00810	-.08600	.65970	2.82000
.260	24.370	1.03860	.42200	-.01720	1.13860	-.05250	.00360	.00290	-.07600	.65590	2.50000
.260	26.470	1.10020	.48050	-.00630	1.19910	-.06030	.00040	.01210	-.08700	.65200	2.28900
.260	28.600	1.14530	.57130	.01100	1.27810	-.08800	-.00530	.01580	-.10100	.64650	2.00400
	GRADIENT	.04485	.00027	-.00110	.04514	-.0008	.00007	-.00009	-.00009	-.00424	2.30653

REPRODUCIBILITY OF THE ORIGINAL PAGE IS POOR.

SSV-ATP ORBITER B2C202M1F1W12V3K2 (40F178) (16 FEB 73)

REFERENCE DATA

SREF =	9.2816 SQ.FT.	XMRP =	43.0396 INCHES		
LREF =	21.2628 INCHES	YMRP =	.0000 INCHES		
BREF =	40.8119 INCHES	ZMRP =	16.2000 INCHES		
SCALE =	.0409 SCALE				

PARAMETRIC DATA

BETA = .000 B2FLAP = .000
MACH = .260

RUN NO. 178/ 0 RN/L = 1.84 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CL	CDF	CLM	CN	CAF	CLN	CSL	CY	XCP/L	L/DF
.260	-5.230	-.24000	.02830	.01620	-.24160	.00830	.00110	-.00030	-.00400	.67650	-8.43600
.260	-3.190	-.13780	.02160	.01020	-.13880	.01410	.00100	-.00040	-.00400	.67910	-6.31900
.260	-1.020	-.04020	.01740	.00600	-.04050	.01860	.00090	-.00020	-.00300	.70890	-2.30700
.260	.020	.00780	.01720	.00400	.00760	.01720	.00100	-.00020	-.00200	.43850	.44300
.260	1.090	.05800	.01770	.00240	.05830	.01660	.00100	.00000	-.00200	.63340	3.26600
.260	3.160	.14980	.02080	-.00090	.15070	.01240	.00090	.00000	-.00100	.65250	7.18500
.260	5.300	.24580	.02670	-.00470	.24700	.00390	.00080	.00010	-.00100	.65760	9.19000
.260	6.360	.29580	.03100	-.00720	.29750	-.00100	.00080	.00000	.00000	.65960	9.27800
.260	8.450	.39480	.04600	-.01180	.39730	-.01250	.00020	-.00090	.00100	.66180	8.57900
.260	10.600	.50240	.07210	-.02000	.50710	-.02150	-.00120	-.00070	.00600	.66560	6.96500
.260	12.760	.62080	.11160	-.03090	.63020	-.02850	-.00110	-.00100	.00800	.66840	5.55200
.260	14.880	.73220	.16140	-.03690	.74910	-.03210	-.00040	-.00210	.01000	.67050	4.53600
.260	16.970	.81320	.21180	-.04230	.83960	-.03500	.00050	-.00160	.00800	.66990	3.84200
.260	18.040	.85120	.23870	-.04220	.88330	-.03660	.00030	.00440	.00000	.66690	3.56300
.260	20.170	.93760	.30050	-.03020	.96360	-.04130	-.00060	.00150	.00600	.67020	3.12000
.260	22.240	.99690	.39940	-.04770	1.05870	-.04550	-.00110	.00260	.00700	.66780	2.77300
.260	24.310	1.01490	.41250	-.04170	1.09470	-.04190	-.00010	-.00470	.02100	.66510	2.46000
.260	26.310	1.00690	.45840	-.03490	1.10360	-.03540	.00260	-.00370	.02100	.66250	2.19600
	GRADIENT	.04929	-.00013	-.00174	.04959	-.00023	-.00001	.00007	.00047	-.00733	2.17140

REPRODUCIBILITY OF THE ORIGINAL PAGE IS POOR.

SSV-ATP ORBITER B2C202H1F1W12V5K2 (ADF179) (16 FEB 93)

REFERENCE DATA

SREF = 5.2616 SQ.FT. XMRP = 43.0566 INCHES
LREF = 21.2626 INCHES YMRP = .0000 INCHES
BREF = 40.6110 INCHES ZMRP = 16.2000 INCHES
SCALE = .040/ SCALE

PARAMETRIC DATA

BETA = 5.000 BEFLAP = .000
MACH = .260

RUN NO. 179/ 0 RN/L = 1.84 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CL	CDF	CLM	CN	CAF	CLN	CSL	CY	XCP/L	L/DF
.260	-5.300	-.23520	.02410	.01340	-.23640	.00230	.00740	.00250	-.08500	.67240	-9.7390
.260	-3.160	-.13440	.01660	.00750	-.13520	.00930	.00700	.00100	-.08400	.67150	-8.0030
.260	-1.040	-.03870	.01330	.00300	-.04000	.01260	.00710	-.00030	-.08400	.67980	-2.9260
.260	-.010	.00760	.01330	.00100	.00760	.01330	.00720	-.00110	-.08400	.99720	.5770
.260	1.080	.05730	.01260	-.00100	.05790	.01150	.00730	-.00180	-.08300	.65720	4.5210
.260	3.140	.14960	.01660	-.00420	.15030	.00840	.00760	-.00300	-.08400	.66100	8.9800
.260	5.260	.24620	.02320	-.00780	.24730	.00040	.00800	-.00430	-.08300	.66250	10.5770
.260	6.330	.29900	.02820	-.01010	.29650	-.00450	.00760	-.00460	-.08300	.66360	10.4940
.260	8.410	.39850	.04460	-.01560	.40060	-.01410	.00650	-.00660	-.07800	.66500	8.9270
.260	10.560	.51020	.07070	-.02370	.51460	-.02400	.00410	-.00770	-.07100	.66620	7.2140
.260	12.720	.62460	.10750	-.03330	.63290	-.03260	.00320	-.00880	-.06500	.67090	5.8080
.260	14.850	.72910	.15930	-.04260	.74410	-.03870	.00390	-.00930	-.06600	.67270	4.7540
.260	16.950	.81790	.20490	-.04740	.84170	-.04240	.00660	-.00410	-.07500	.67230	3.9890
.260	18.030	.86440	.23610	-.05160	.89310	-.04300	.00870	-.00330	-.07500	.67260	3.6600
.260	20.180	.93660	.29520	-.05500	.96260	-.04640	.01040	-.00800	-.07300	.67210	3.1780
.260	22.270	1.00470	.35960	-.05800	1.03600	-.04600	.00900	-.00320	-.07400	.67150	2.7930
.260	24.320	1.02840	.41070	-.05000	1.10630	-.04920	-.00040	.00660	-.08700	.66790	2.5030
.260	26.370	1.04810	.46290	-.04730	1.14290	-.04990	-.00230	.01040	-.09500	.66640	2.2590
	GRADIENT	.04819	-.00006	-.00163	.04939	-.00019	.00012	-.00064	.00005	-.00234	2.7795

REPRODUCIBILITY OF THE ORIGINAL PAGE IS POOR

SSV-ATP ORBITER B2C202M1F1W13V3K2 (ADF160) (16 FEB 73)

REFERENCE DATA

SREF = 9.2818 SQ.FT. XMRP = 43.0596 INCHES
LREF = 21.2828 INCHES YMRP = .0000 INCHES
BREF = 40.8119 INCHES ZMRP = 16.2000 INCHES
SCALE = .0405 SCALE

PARAMETRIC DATA

BETA = .000 B2FLAP = .000
MACH = .165

RUN NO. 160/ 0 RN/L = 1.17 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CL	CDF	CLM	CN	CAF	CLN	CSI	CY	XCP/L	L/DF
.160	-5.100	-.23760	.02810	.01690	-.23920	.00690	.00140	-.00050	-.00400	.67810	-8.45500
.160	-3.080	-.13940	.02180	.01210	-.14040	.01420	.00120	-.00050	-.00400	.68420	-6.38600
.160	-.980	-.04090	.01780	.00780	-.04120	.01710	.00100	-.00050	-.00300	.72320	-2.29100
.160	.010	.00490	.01800	.00630	.00490	.01800	.00090	-.00050	.00100	.14340	.27300
.160	1.030	.04930	.01810	.00510	.04960	.01720	.00080	-.00050	.00100	.60910	2.72100
.160	3.100	.14550	.02120	.00240	.14620	.01330	.00080	-.00050	.00300	.64330	6.83700
.160	5.210	.23700	.02610	-.00050	.23840	.00960	.00090	-.00050	.00400	.65090	9.05500
.160	6.190	.28490	.03190	-.00280	.28670	.00690	.00090	.00000	.00500	.65390	8.91000
.160	8.260	.37870	.04250	-.00790	.38090	.00230	.00060	.00010	.00600	.65850	8.90700
.160	10.390	.47950	.05990	-.01550	.48250	-.00270	-.00080	.00080	.00200	.65770	7.99900
.160	12.430	.58600	.08840	-.02480	.59130	-.00980	-.00090	.00010	.00500	.66660	6.62700
.160	14.500	.68410	.12620	-.03550	.69390	-.01910	.00000	-.00050	.00200	.66910	5.42000
.160	16.540	.78020	.17430	-.04950	.77840	-.04940	.00070	-.00020	.00100	.66700	4.36100
.160	17.580	.78910	.10690	-.03040	.81170	-.05070	.00120	-.00340	.00500	.66460	4.00700
.160	19.620	.82780	.24610	-.02930	.86240	-.04620	.00210	-.00120	.00000	.66340	3.36300
.160	21.7[illegible]	.91900	.31250	-.04990	.96940	-.04960	.00190	-.00040	.00100	.67030	2.94000
	GRADIENT	.04993	-.00007	-.00154	.04624	-.00013	-.00006	.00005	.00068	-.01133	2.17256

REPRODUCIBILITY OF THE ORIGINAL PAGE IS POOR.

SSV-ATP ORBITER B2C202M1F1W13V3K2 (ADF181) (16 FEB 73)

REFERENCE DATA

SREF =	9.2816 SQ.FT.	XMRP =	43.0596 INCHES		
LREF =	21.2828 INCHES	YMRP =	.0000 INCHES		
BREF =	40.8119 INCHES	ZMRP =	16.2000 INCHES		
SCALE =	.0405 SCALE				

PARAMETRIC DATA

BETA =	5.000	B2FLAP =	.000
RUDFLR =	10.000	MACH =	.165

RUN NO. 181/ 0 RN/L = 1.17 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CL	CDF	CLM	CN	CAF	CLN	CSL	CY	XCP/L	L/DF
.160	-5.140	-.23060	.02470	.01350	-.23190	.00390	.00760	.00230	-.08400	.67310	-9.31900
.160	-3.090	-.13360	.01830	.00810	-.13440	.01110	.00690	.00090	-.08200	.67380	-7.27500
.160	-1.000	-.03830	.01350	.00490	-.03850	.01260	.00700	-.00040	-.08300	.69710	-2.82700
.160	.010	.00860	.01310	.00510	.00860	.01310	.00700	-.00120	-.08300	.50730	.67200
.160	1.090	.03090	.01190	.00190	.03120	.01100	.00720	-.00180	-.08300	.63490	4.25400
.160	3.100	.14360	.01630	-.00140	.14630	.00840	.00740	-.00310	-.08300	.65400	8.90400
.160	5.170	.23950	.02350	-.00460	.24070	.00160	.00790	-.00400	-.08300	.65770	10.16500
.160	6.200	.28620	.02660	-.00690	.28740	-.00440	.00800	-.00450	-.08300	.65890	10.72900
.160	8.260	.38520	.03970	-.01310	.38630	-.01620	.00730	-.00490	-.08300	.66340	9.70100
.160	10.340	.48770	.06010	-.02100	.49050	-.02840	.00590	-.00640	-.07800	.66690	8.11000
.160	12.430	.58370	.08300	-.02740	.58790	-.04450	.00440	-.00800	-.07400	.66840	7.02500
.160	14.460	.66610	.12730	-.03600	.69610	-.04840	.00600	-.01050	-.07500	.67160	5.36900
.160	16.540	.73450	.17120	-.03660	.77160	-.05070	.00710	-.01610	-.06800	.66890	4.40500
.160	17.580	.79260	.19580	-.04210	.81490	-.05260	.00850	-.01750	-.06700	.67040	4.04600
.160	19.640	.87670	.25540	-.05460	.91160	-.05420	.01160	-.01420	-.07400	.67370	3.43200
.160	21.720	.94240	.31160	-.05600	.99060	-.05930	.01250	-.00770	-.08100	.67310	3.02300
	GRADIENT	.04493	-.00097	-.00151	.04519	-.00048	.00008	-.00065	-.00015	-.00585	7.69667

REPRODUCIBILITY OF THE ORIGINAL PAGE IS POOR.

SSV-ATP ORBITER B2C2D2M1F1W2V3K2 (ADF182) (16 FEB 73)

REFERENCE DATA

SREF = 5.2816 SQ.FT. XMRP = 43.0396 INCHES
LREF = 21.2628 INCHES YMRP = .0000 INCHES
BREF = 40.8119 INCHES ZMRP = 16.2000 INCHES
SCALE = .0405 SCALE

PARAMETRIC DATA

BETA = .000 B2FLAP = .000
RUDFLR = 10.000

RUN NO. 182/ 0 RN/L = 1.84 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CL	CDF	CLM	CN	CAF	CLN	CSL	CY	XCP/L	L/DF
.260	-5.270	-.24770	.04190	.03360	-.25050	.01890	.00060	.00010	-.00200	.70310	-5.90600
.260	-3.170	-.14870	.03490	.02430	-.15040	.02660	.00040	.00000	-.00200	.71400	-4.25800
.260	-1.040	-.04970	.03090	.01680	-.05020	.03000	.00030	.00000	-.00100	.78290	-1.60400
.260	.000	-.00580	.03070	.01390	-.00580	.03070	.00030	.00000	-.00100	1.58940	-.19100
.260	1.050	.04220	.03050	.01070	.04260	.02970	.00040	.00010	-.00100	.55020	1.38500
.260	3.130	.13330	.03340	.00540	.13520	.02600	.00030	.00010	.00000	.65390	3.99600
.260	5.290	.22230	.03950	-.00140	.23490	.01790	.00040	.00000	.00000	.65240	5.87400
.260	6.350	.28000	.04340	-.00350	.28310	.01220	.00040	.00000	.00000	.65770	6.44100
.260	8.440	.37590	.05480	-.01410	.37990	-.00100	.00040	.00020	.00100	.66470	6.86000
.260	10.560	.46160	.07130	-.02560	.46670	-.01620	-.00040	.00070	.00300	.67080	6.75200
.260	12.660	.56330	.09540	-.03710	.59000	-.03490	-.00230	.00030	.00600	.67490	6.11000
.260	14.810	.66480	.14560	-.05400	.69920	-.03430	.00050	-.00020	.00400	.68060	4.70100
.260	16.910	.76070	.19550	-.06360	.79470	-.03420	.00000	-.00070	.00500	.68200	3.89000
.260	17.930	.79710	.22010	-.06780	.82610	-.03600	-.00010	-.00020	.00600	.68250	3.62000
.260	20.030	.86270	.27410	-.07560	.90440	-.03800	.00000	-.00130	.00800	.68220	3.14600
.260	22.100	.90730	.32870	-.07560	.96430	-.03670	.00040	-.00260	.01100	.68110	2.75900
.260	24.160	.93630	.38110	-.07600	1.01030	-.03550	.00040	-.00190	.01000	.68050	2.45800
.260	26.170	.93100	.41600	-.06810	1.01990	-.03560	.00100	-.00160	.00900	.67640	2.22700
.260	29.210	.92700	.47590	-.06450	1.04140	-.03710	.00260	-.01300	.04400	.67450	1.94700
	GRADIENT	.04472	-.00024	-.00299	.04525	-.00010	-.00001	.00002	.00029	-.02223	1.32202

REPRODUCIBILITY OF THE ORIGINAL PAGE IS POOR.

SSV-ATP ORBITER B2C202M1F1WEV3K2 (ADF183) (16 FEB 73)

REFERENCE DATA

SREF = 3.2816 SQ.FT. XMRP = 43.0596 INCHES
LREF = 21.2628 INCHES YMRP = .0000 INCHES
BREF = 40.8119 INCHES ZMRP = 16.2000 INCHES
SCALE = .0405 SCALE

PARAMETRIC DATA

BETA = 5.000 B2FLAP = .000
RUDFLR = 10.000

RUN NO. 183/ 0 RN/L = 1.84 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CL	CDF	CLM	CN	CAF	CLN	CSL	CY	XCP/L	L/DF
.260	-3.260	-.24300	.03720	.02820	-.24540	.01470	.00890	.00190	-.08800	.69560	-6.52400
.260	-3.150	-.14480	.03030	.01870	-.14630	.02230	.00850	.00060	-.08700	.70080	-4.77400
.260	-1.040	-.04770	.02850	.01110	-.04620	.02560	.00850	-.00070	-.08600	.74180	-1.79800
.260	.000	-.00060	.02540	.00870	-.00060	.02540	.00850	-.00120	-.08700	-.86570	-.02700
.260	1.040	.04320	.02520	.00510	.04360	.02490	.00850	-.00190	-.08600	.60340	1.70600
.260	3.160	.13700	.02840	-.00150	.13640	.02080	.00870	-.00300	-.08500	.65450	4.81600
.260	5.270	.23130	.03430	-.00780	.23350	.01290	.00920	-.00370	-.08600	.66330	6.74100
.260	6.330	.28000	.03840	-.01190	.28250	.00780	.00950	-.00410	-.08700	.66670	7.27600
.260	8.410	.37660	.05050	-.01900	.38010	-.00510	.01020	-.00510	-.08700	.66960	7.45700
.260	10.550	.47820	.06750	-.03060	.48240	-.02120	.00980	-.00550	-.08600	.67510	7.08400
.260	12.660	.58140	.09330	-.04320	.58790	-.03660	.00710	-.00720	-.07900	.67990	6.20000
.260	14.780	.68590	.14010	-.05780	.69650	-.05910	.01000	-.00640	-.08100	.68270	4.89000
.260	16.880	.78400	.19030	-.06290	.79680	-.03650	.01130	-.00910	-.07900	.68200	3.96000
.260	17.940	.79810	.22010	-.07300	.82710	-.03640	.01100	-.00830	-.07800	.68490	3.62500
.260	20.000	.89360	.27520	-.07710	.89740	-.03600	.01200	-.01370	-.08700	.68400	3.13100
.260	22.100	.91050	.32660	-.08460	.96730	-.03600	.01360	-.01150	-.08700	.68460	2.78600
.260	24.020	.94170	.37740	-.08580	1.01380	-.03860	.00820	-.00070	-.07400	.68340	2.49400
.260	26.190	.95660	.42260	-.08570	1.04490	-.04300	.00910	.00110	-.07600	.68240	2.26300
.260	28.210	.94640	.47900	-.07870	1.05980	-.04360	.01500	-.00350	-.08300	.67870	1.97300
	GRADIENT	.04496	-.00033	-.00317	.04502	-.00027	.00003	-.00037	.00029	-.01305	1.53607